Thank you for purchasing our product.
Please read this User’s Manual before
using the product. Change without Notice

P V M

User’s Manual

Safety Precautions

CAUTION

RISK OF ELECTRICAL SHOCK. DO NOT OPEN !

CAUTION: TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT REMOVE COVER (OR BACK), NO USER SERVICEABLE PARTS REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This label may appear on the bottom of the unit due to space limitations.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of insulated dangerous Voltage within the product's enclosure that may be sufficient magnitude to constitute risk of electrical shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operation and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE UNITS NOT SPECIFICALLY DESIGNED FOR

Attention: installation should be performed by qualified service Personnel only in accordance with the National Electrical Code or applicable local codes.

Power Disconnect. Units with or without ON-OFF switches have power supplied to the unit whenever the power cord is inserted into the power source; however, the unit is operational only when the ON-OFF switch is the ON position. The power cord is the main power disconnect for all unites.

"CAUTION: Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instruction."

Warranty and Service

During the warranty period (one year), we will repair or replace the DVR free of charge.
Be sure to have the model number, serial number and vendor stick on hard disk for service representative.

FCC Statement:

WARNING

This device complies with Part 15 FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference. (2) This device must accept any interference received including interference that may cause undesired operation."

*** Federal Communications Commission (FCC) Statement**

WARNING

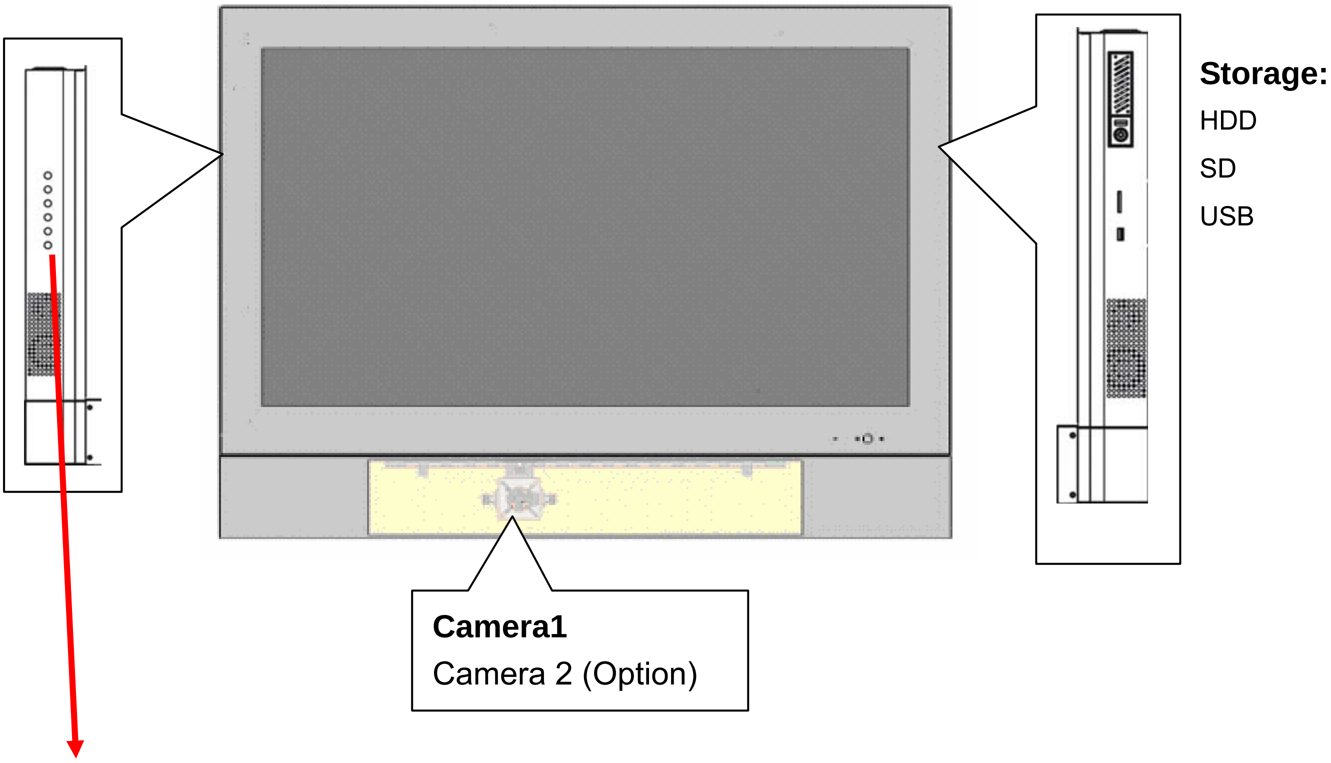
This Equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

* You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

Contents

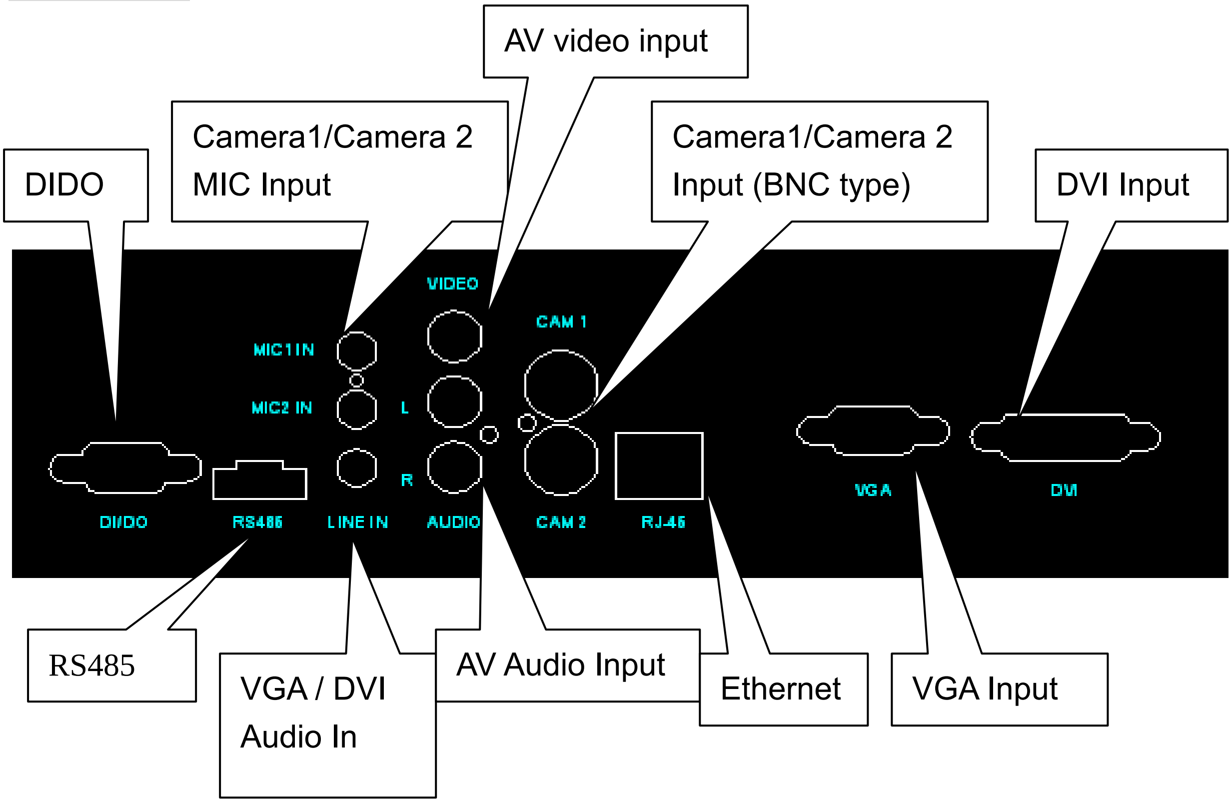
1. PVM I / O



Keypad

Enter	Go to sub-level menu.
Menu	Push this button to display the main OSD menu.
Up	Use this button to select the menu item.
Down	Use this button to select the menu item.
Source	The button use to select input source while the all of OSD is off.
Power	Power On / Off the PVM device .

1.1 Rear Panel



DVI Input	DVI Connector input
VGA Input	VGA Connector input
Ethernet	RJ45 Cable in
CAM1	BNC Connector for Camera 1 video input
CAM2	BNC Connector for Camera 2 video input
Video	AV video input
Audio (L)	AV audio input , RCA type (Left)
Audio (R)	AV audio input , RCA type (Right)
MIC 1 IN	The microphone audio in for camera 1
MIC 2 IN	The microphone audio in for camera 2
Line IN	The Audio Cable in for VGA / DVI
RS485	RS485 Connector for Speed Dome
DIDO	Alarm in / Alarm out PIN define : Alarm in 1 (red) , Alarm in 2 (orange), Ground (black) Alarm out 1-1 (yellow), Alarm out 1-2 (blue) Alarm out 2-1 (green), Alarm out 2-2 (purple)

Notice :

1. The front panel can build in Camera 2 (option) , it also can connect camera 1 and Camera 2 from rear panel .

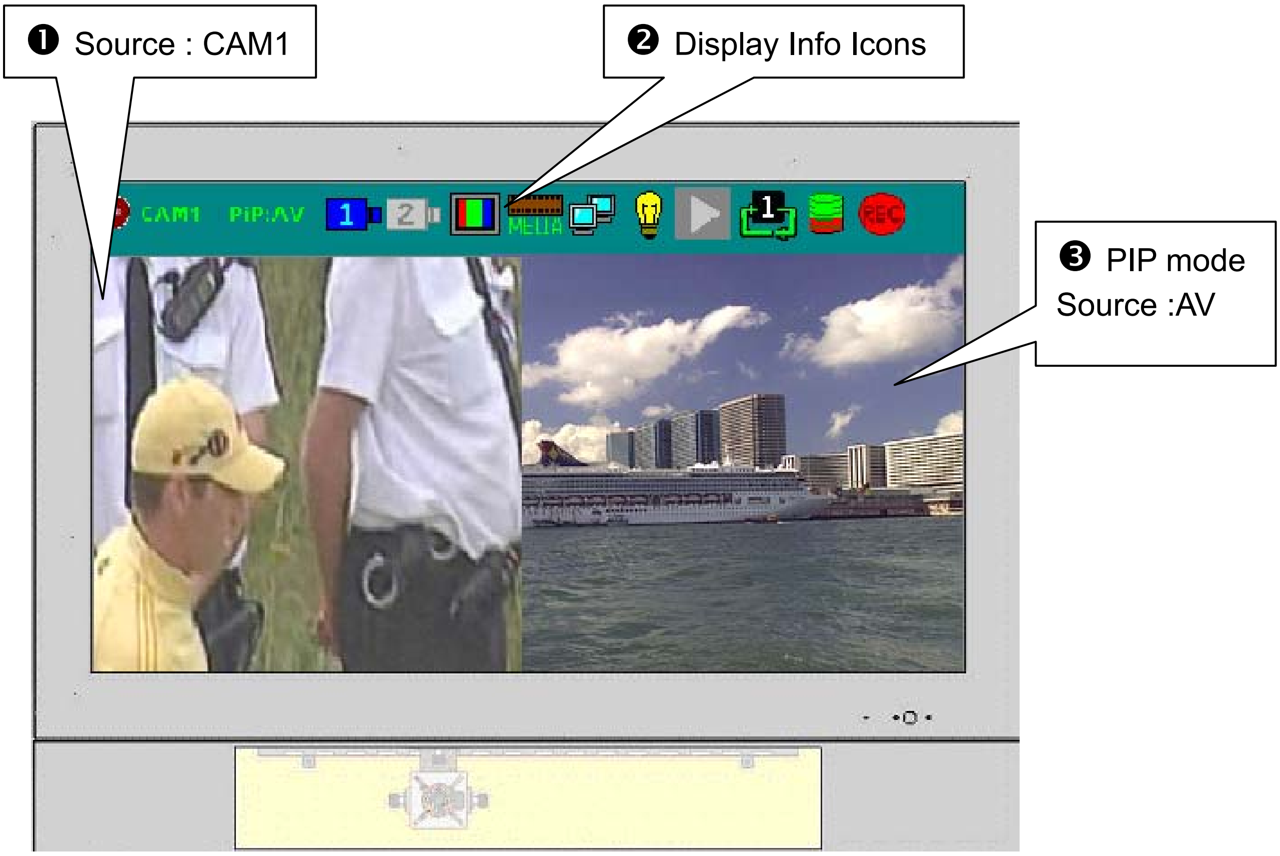
2. The rear panel cameras are the first priority than the build in cameras.

1.2 Remote Controller



Power	Use this button to turn the power on and off when the main power is supplied
Cam1	Direct to select the internal camera source input
Cam2	Direct to select the extent camera source input
AV	Direct to select the AV source input
Media	Direct to select the media source input
VGA	Direct to select the VGA source input
DVI	Direct to select the DVI source input
PIP/POP	Use this button to adjust the PIP window size
Source	Use this button to select the PIP source input.
Video Swap	Use this button to swap the window ether main or PIP.
Up	Use this button to select the menu of the item
Down	Use this button to select the menu of the item
Left	Use this button to adjust value of function.
Right	Use this button to adjust value of function.
Enter	Use this button to execute adjustment or to select one item of next level.
CAM	Select the camera control (CAM1 or CAM2)
Mute	Mute the audio.
Info	Pop-out the source and DVR status message
Menu	Push this button to displays the main OSD menu.
Audio	Use this button to swap the live audio out ether main or PIP.
Volume -	Adjust the volume down. (Zoom out)
Volume +	Adjust the volume up. (Zoom in)
Record	Start record or Stop
Scroll	Enable scroll text or Stop.
Play	Playback media from hdd
Stop	Stop playback
Repeat	Repeat current media
Previous	Go back previous media
Pause	Pause the playback
Next	Skip to next media

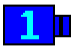
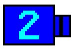
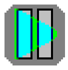
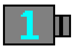
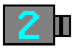
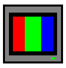
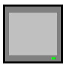
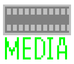
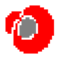
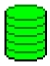
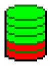
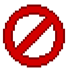
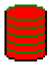
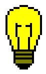
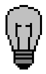
1.3 Display mode



❶	Main source ,the source could be the CAM1/ CAM2 / AV / VGA / DVI / Media
❷	Display information Icons (Please see below icons indicated mapping table) .
❸	PIP Mode, when main source is CAM1 then the PIP source could be the CAM2 / AV / VGA / DVI / Media

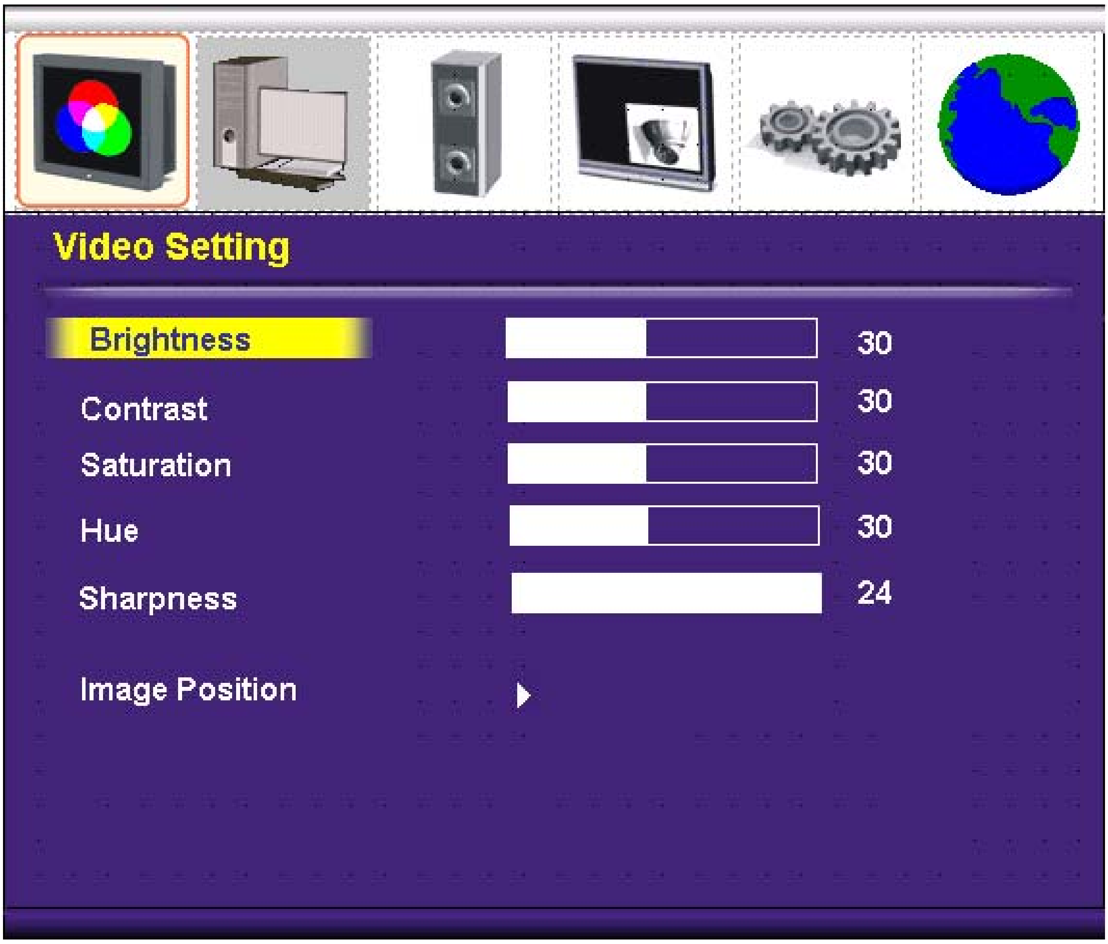
1.4 Display Icon

Display Info (Icons indicated)

Icon	Description	Icon	Description
	Camera 1 source active		Playing the media file
	Camera 2 source active		Pause the playing media file
	Camera 1 (No signal input)		Media source repeat file 1
	Camera 2 (No signal input)		Media source repeat all files
	AV source active		DVR recording
	AV source (No signal input)		DVR stop record
	Media source active		Audio Mute
	Media source (No signal input)		Audio active
	Client connected		HDD usage 0 %
	Client disconnected		HDD usage 40 %
	No audio signal input		HDD full (usage 100 %)
	CDS control set on		Main source ：CAM1
	CDS control set off		PIP mode , PIP source：AV

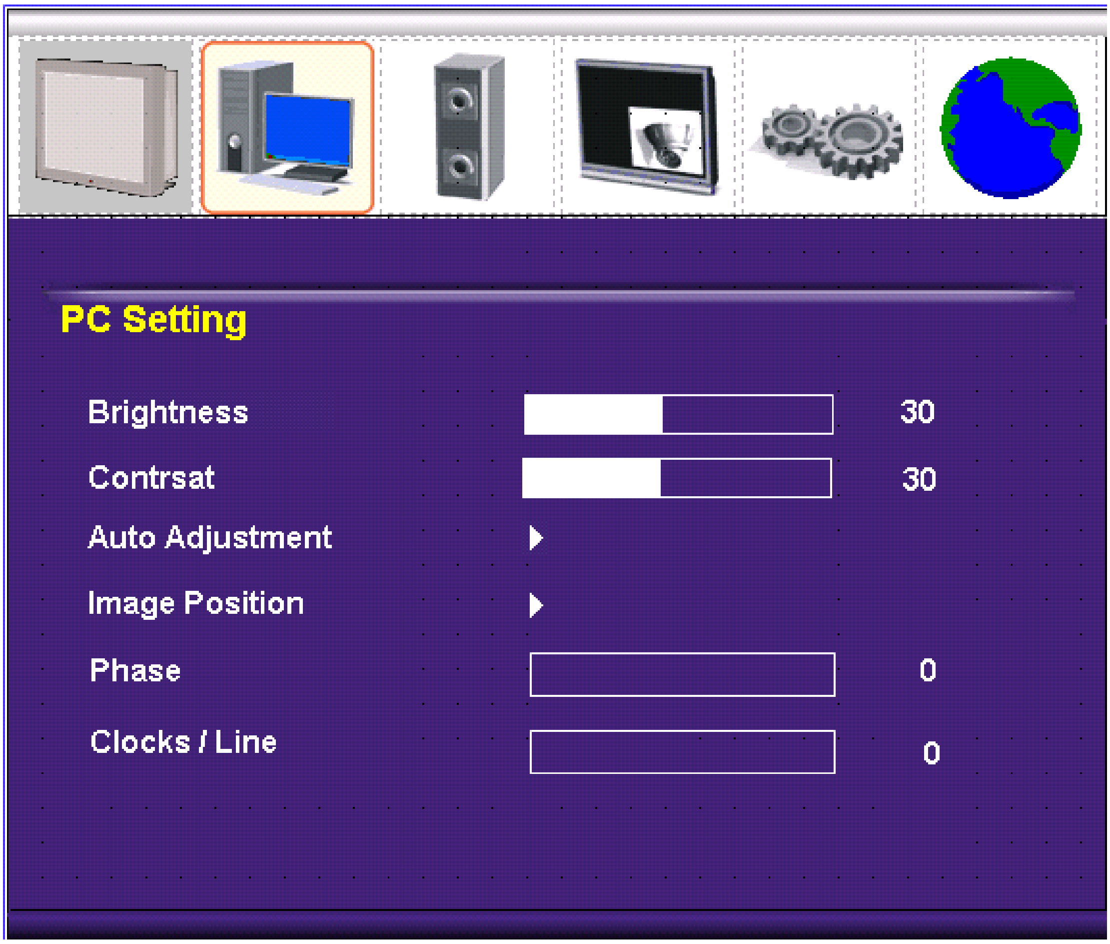
2. OSD Menu Setup

2.1 Video Setting



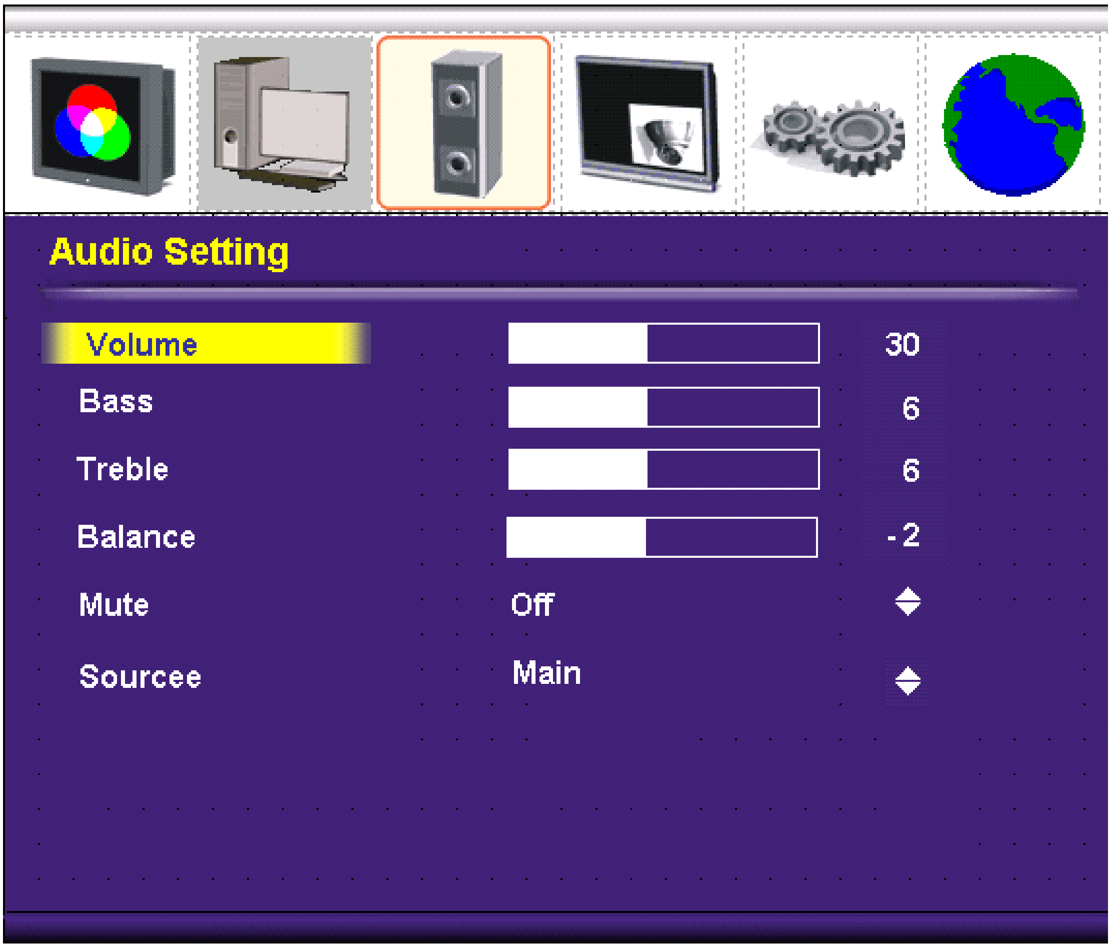
Brightness	Adjusts the overall picture shade and brightness , 0 ~ 100
Contrast	Adjusts the contrast between light and dark areas of the picture. 0 ~ 100
Saturation	Adjusts the intensity of the color. 0 ~ 100
Hue	To determine the lightness and colorfulness of the picture, 0 ~ 100
Sharpness	Sets the desired sharpening enhancement to the picture 0 ~ 24
Image Position	adjustment for horizontal / vertical position

2.2 PC Setting



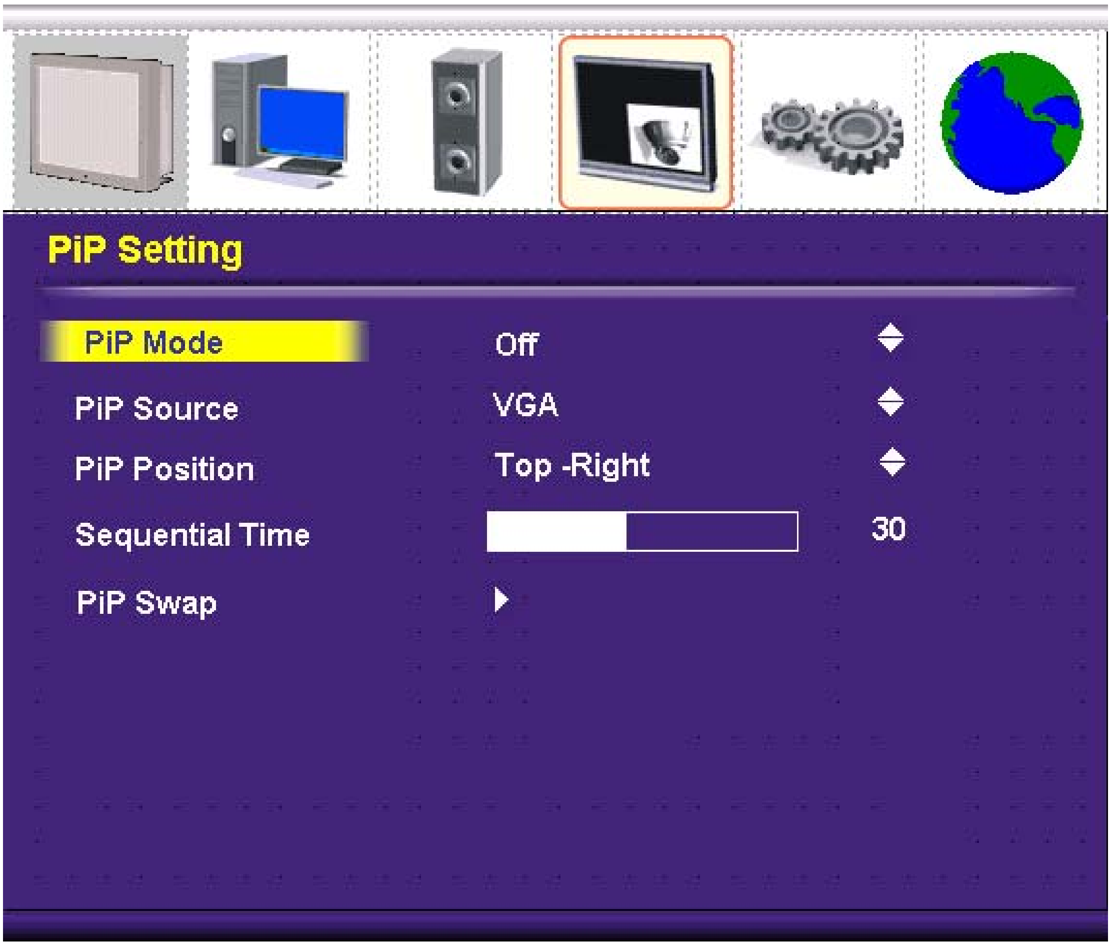
Brightness	Adjusts the overall picture shade and brightness.
Contrast	Permits adjustment of contrast between light and dark areas of the picture.
Auto Adjustment	Picture adjustment automatic correction, like clock and phase.
Image Position	Allows adjustment for horizontal / vertical position
Phase	To adjust the clock phase of VGA signal 0 ~ 31
Clock / Line	To adjust the H. total of VGA signal

2.3 Audio Setting



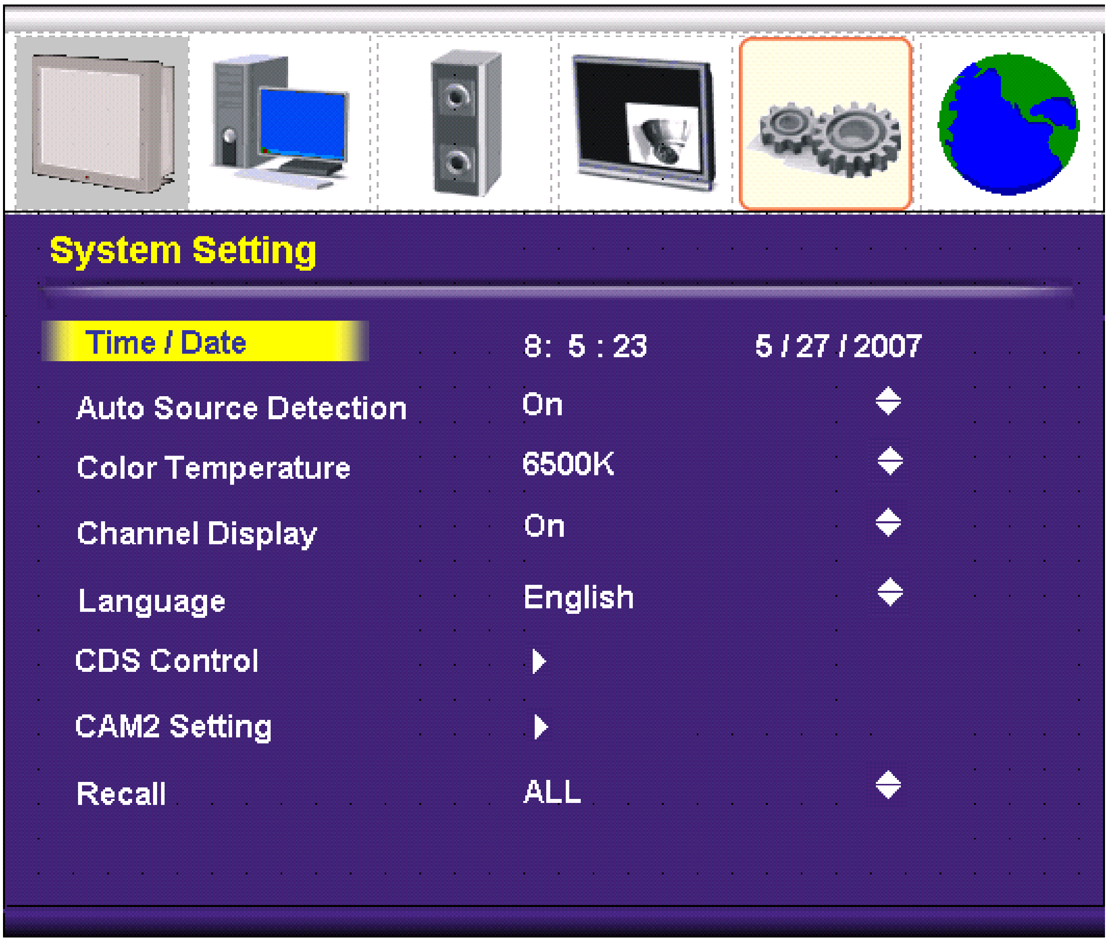
Volume	Controls built-in speakers' output volumes.
Base	Adjusts the tone to low frequency part of the sound. 0~ 14
Treble	Adjust the high or acute of the sound. 0 ~ 14
Balance	Adjusts the softness of loudness of notes in the sound. -10 ~ +10
Mute	To disable the audio function. (On / Off)
Source	Select the audio source . (Main or sub source , only on PIP enabled)

2.4 PIP Setting



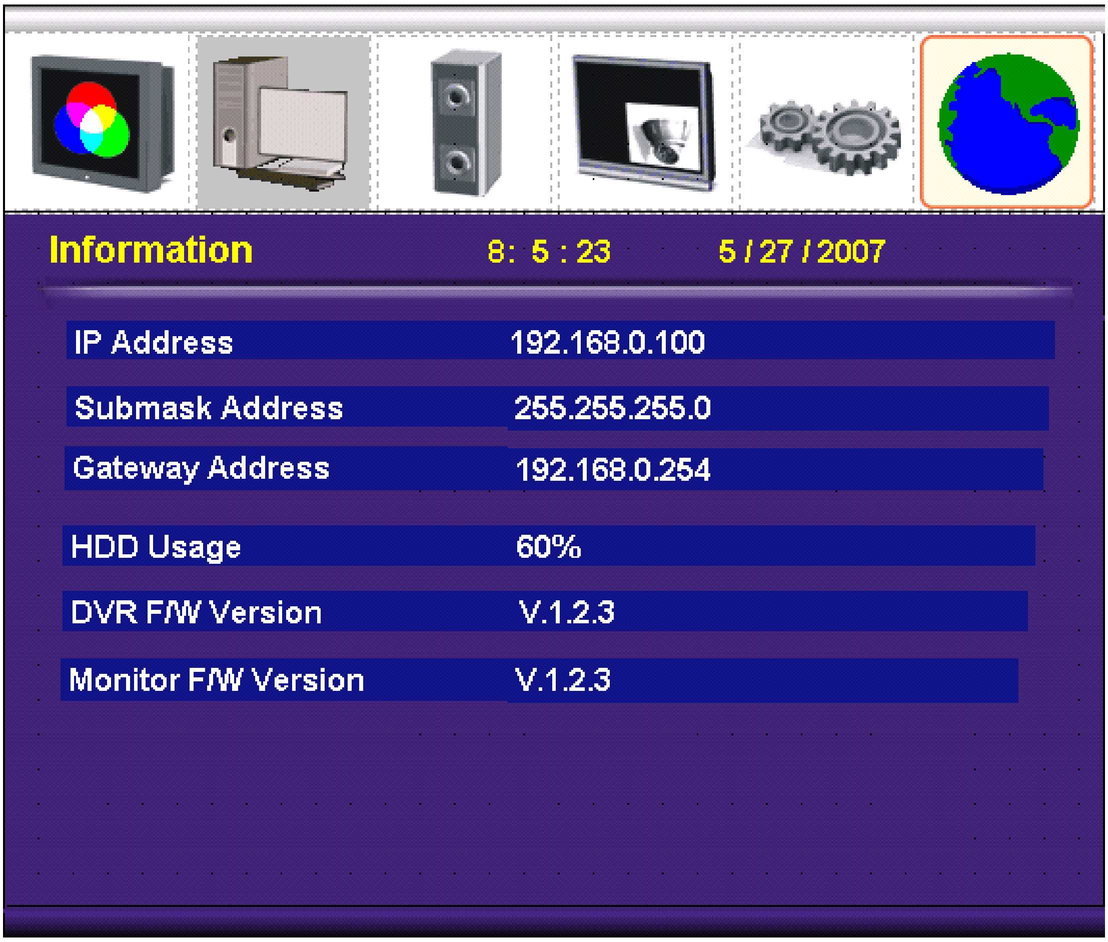
PIP Mode	Select the PIP mode display , (Off / Small / User / Side-by Side / Side-by Side Tall)
PIP Source	Select the PIP source , (CAM2 / DVI / VGA / Media / AV) Note : main window and PIP window should be a different source .
PIP Position	Adjust the PIP position (Top-Left / Top-Right / Bottom- Right / Bottom- Left)
Sequential Time	Time of the video change the PIP source (0 ~ 100 seconds)
PIP Swap	Swap the source between the main and PIP window

2.5 System Setting



Date / Time	Setup the system date and time .
Auto Source Detection	Auto detect source when the singal is lost **(excluding PIP source)** (On / Off)
Color Temperature	Selects color temperature of either 6500°K or 9300°K.
Channel Display	Enable / Disable display the source message . (On / Off)
OSD Language	Select the OSD language. (English)
CDS Control	Power control by CDS function . (On /Off) Power off level 100~300 Power on level 500 ~ 1000
CAM2 Setting	On/off Protocol (Pelco P / Pelco D) Baud Rate (2400 / 4800 / 9600)
Recall	Recall the user setting (ALL / DVR / LCD)

2.6 Information



IP Address	Display the PVM IP address. (default is 192.168.0.2)
Submask	Display the subnet mask. (default is 255.255.255.0)
Gateway	Display the gateway IP address. (default is 192.168.0.1)
HDD Usage	Display the hard disk record usage
DVR Version	Display the DVR F/W version
Monitor Version	Display the LCD monitor F/W version

3. Camera OSD Menu Setup

3.0 Main Menu

Main menu	
General	↓
Ae	↓
Wdr	↓
Day / Night	↓
Awb	↓
Privacy	↓
Special	↓
Message	↓
Initial	OFF
Exit	↓

Notice :

1. CAM1 default ID is 1, CAM2 default ID is 2.

2. Switch to CAM1 or CAM2 will display with full screen mode.

3. Can't change input source in CAM control mode. Must leave to the Live mode first.

3.1 General Menu

General menu	
Camera ID	1
Baud rate	9600
Sync	INT
V phase	NA
Initial	ON
EXIT	↓

Camera ID	Set Camera ID 1~255
Baud rate	Baud rate is a serial communication rate that use to measure how fast data is moving. Baud rate is able set at 2400、4800、9600、19200 four different serial communication rates.
Sync	Set Sync function to internal mode
V phase	Set V phase to N/A.
Initial	Initial General menu’s setting back to the factory settings
Exit	Return to Main menu

3.2 AE Menu

Ae menu	
Brightness	16
Agc max	160
Mgc adj	NA
Flicker	OFF
Shutter	MIRIS
Dss max	OFF
Initial	ON
Exit	↓

Brightness	Brightness level adjustment. Adjust range: 0~36. Brightness function works only if WDR mode is OFF. (When WDR mode is on, brightness function will become N/A and not adjustable.)
AGC Max	Auto Gain Control Maximum (AGC Max) function. Adjust range: 0~255. (When WDR mode is on, AGC Max function will become N/A and not adjustable)
MGC Adj	Manual Gain Control Adjustment (MGC Adj) function. Users are only able to make an adjustment when Shutter mode becomes fixed such as 1/125. (When WDR mode is on, MGC Adj function will become N/A and not adjustable.)
Flicker	When Flicker function is ON, fixed electronic shutter will be 1/100(NTSC) or 1/120(PAL). This function will work only if camera's WDR function set as OFF.
Shutter mode	MIRIS means auto shutter selected otherwise users are able to set the shutter at a fixed rate
DSS max	Digital Slow Shutter (DSS). Adjust range: 2~160 Field。
Initial	Initial Auto Exposure (AE) menu's setting back to factory settings.
Exit	Return to Main menu

3.3 WDR Menu

WDR menu	
Wdr mode	ON
Wdr level	128
Backlight	NA
Blc level	NA
Blc wind	NA
Initial	OFF
Exit	↓

WDR mode	Wide Dynamic Range (WDR) ON/OFF switch
WDR level	When WDR is ON, users are able to adjust WDR level from 0 to 255.
Backlight	Backlight ON/OFF Switch. Backlight Compensation (BLC) function works only if WDR function is OFF.
BLC level	BLC level setting range from 0 to 15, it only works when WDR function is OFF
BLC wind	BLC wind setting. BLC wind function allows users set BLC wind position (10 positions in total).，CENTERS、CENTERL、TOPS、TOPL、BOTTOMS、BOTTOML、LEFTS、LEFTL、RIGHTS、RIGHTL
Initial	Initial WDR menu’s setting back to factory settings.
Exit	Return to Main menu

3.4 Day / Night Menu

Day / Night menu	
D/N mode	DAY
D/N level	NA
D/N delay	NA
Initial	ON
Exit	↓

D/N mode	Day / Night (D/N) mode，Users are able select AUTO、DAY、NIGHT three different modes for the different needs. (1) AUTO：According to D/N level and brightness level, camera will automatically switches between Day or Night mode. (2) DAY：Day Mode (Color picture). (3) NIGHT：Night Mode (Black-and-white picture).
D/N level	When D/N mode set to AUTO, the camera will automatically switch between Day or Night mode by detecting brightness level. When D/N level is getting bigger，the brightness level of environment has to become darker in order to make system switches to night mode.
D/N delay	Day/Night delay time is from 0~15 seconds.
Initial	Initial Day/Night menu’s setting back to factory settings.
Exit	Return to Main menu.

3.5 AWB Menu

AWB menu	
Color mode	AUTO
Red gain	NA
Blue gain	NA
Push lock	NA
Initial	ON
Exit	↓

Color mode	Auto white balance (AWB) mode includes AUTO、INDOOR、OUTDOOR、MANUAL、PUSH LOCK five different modes.。
Red gain	Red gain function adjustment. Red gain works only if Color mode set to MANUAL.
Blue gain	Blue gain function adjustment. Blue gain works only if Color mode set to MANUAL
Push lock	Push lock only works when Color mode set to PUSH LOCK otherwise this function will not activated. When Push lock is set to ON, the camera will automatically start Auto White Balance function (AWB). When Push lock is set to OFF, the camera will stop Auto White Balance function.
Initial	Initial AWB menu's setting back to factory settings.
Exit	Return to Main menu.

3.6 Privacy Menu

Privacy menu	
Wind	1
Privacy	OFF
H str	20
H end	70
V str	20
V end	30
Initial	ON
Exit	↓

Wind	Privacy area setting. Area setting range: 1~8 areas.
Privacy	Privacy function ON/OFF setting.
H str	Horizontal start is the function that set the starting position of horizontal level in Privacy area. Adjust range: 1~180.
H end	Horizontal end is the function that set the ending position of horizontal level in Privacy area. Adjust range: 1~180.
V str	Vertical start is the function that set the starting position of vertical level in Privacy area. Adjust range: 1~120.
V end	Vertical ending is the function that set the ending position of vertical level in Privacy area. Adjust range: 1~120.
Initial	Initial Privacy menu's setting back to factory settings.
Exit	Return to Main menu.

3.7 Special Menu

Special menu	
Sharpness	7
Negative	OFF
Rotate	OFF
Freeze	OFF
Initial	ON
Exit	↓

Sharpness	Sharpness level adjustment. Adjust range: 0~15.
Negative	When it sets to ON, Video image is Negative. (Negative means screen will display in Black and white image) When it sets to OFF, Video image is Positive. (Positive means screen will display in normal color image)
Rotate	Four different modes provided for the different needs. (1).OFF：Normal (2).HORIZONTAL：Left/Right horizontal reverse. (3).VERTICAL：Up/Down vertical reverse. (4).ROTATE：180 degree rotates.
Freeze	When it set to ON , the screen Image freeze
Initial	Initial Special menu’s setting back to factory settings.
Exit	Return to Main menu.

3.8 Message Menu

Message menu	
Zone	■■■■■■
Zone disp	ON
Zone pos	LEFT DOWN
ID disp	ON
ID pos	RIGHT DOWN
Zoom disp	ON
Zoom pos	LEFT UP
Initial	OFF
Exit	↓

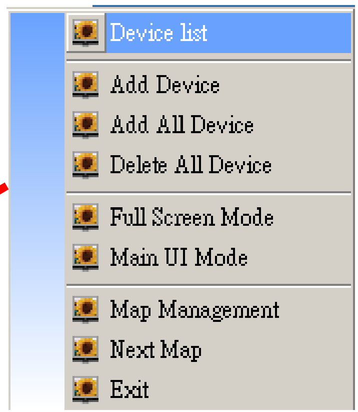
Zone	Zone label setting，Maximum 16 characters. ※UP / DN – character selection (First, select Zone. And then press right button. Last, users have to use UP/DN button to select characters that they want to set with.) ※RIGHT – characters position selection
Zone disp	Zone screen display setting.
Zone pos	Zone display position，able adjust to RIGHT DOWN / RIGHT UP / LEFT DOWN / LEFT UP
ID disp	ID screen display setting.
ID pos	ID display position setting，able adjust to RIGHT DOWN / RIGHT UP / LEFT DOWN / LEFT UP。
Zoom disp	Zoom screen display setting.
Zoom pos	Zoom display position setting，able adjust to RIGHT DOWN / RIGHT UP / LEFT DOWN / LEFT UP
Initial	Initial Message menu’s setting back to factory settings.
Exit	Return to Main menu.

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4. E-Map Function Setup

After run the E-Map function it will display a default map , user can setup camera on the map and show each cameras location , user friendly interface design let user can see all cameras on the map .

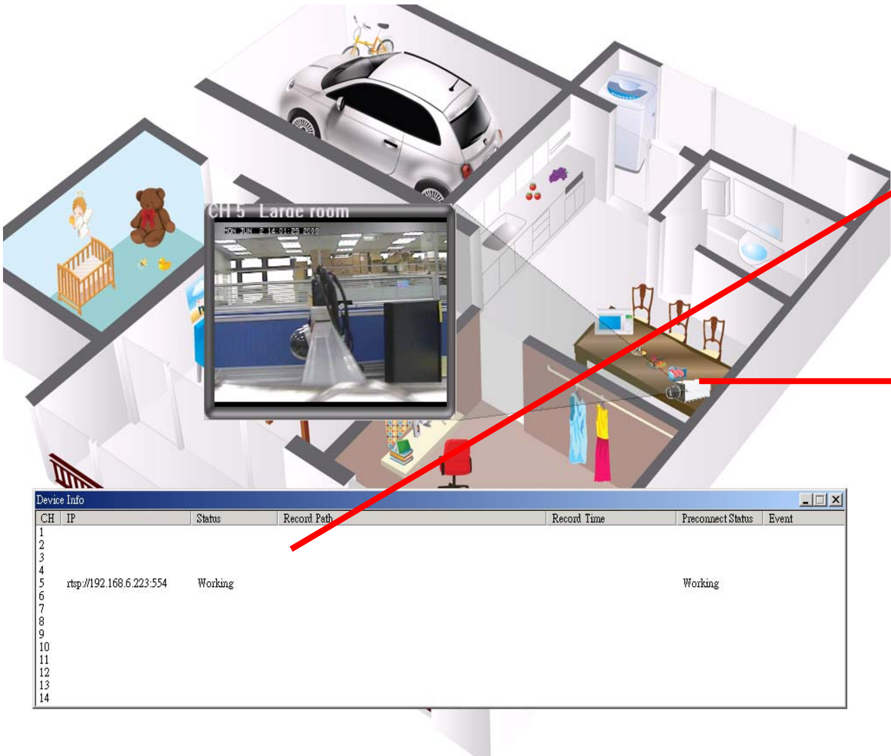




Device list	List all cameras connection status
Add Device	Add a new camera on the Map
Add All Device	Add all cameras on the Map
Delete All Device	Delete all cameras on the Map
Full Screen Mode	Display with full screen mode
Main UI Mode	Display with UI mode
Map Management	Camera grouping management
Next Map	Change to next Map
Exit	Exit E-Map function

4.1 Device List

On the E-MAP user can move the camera icon to desire position, and the camera video window also can use mouse to change windows size.

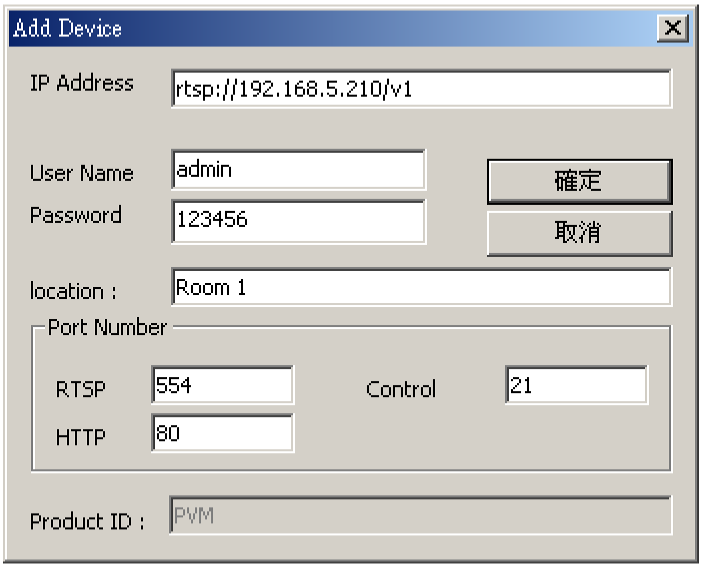


Device Info :
It shows all cameras list status , when use mouse click the device list again , the device info window will be hidden .

The camera icon can move to any position

4.2 Add Device

User can add a new camera on the map , it will display add device window .



IP address: input the camera's IP address
User name : input login username
Password : input password
Location : descript the camera location

Port number :
default RTSP :554 , HTTP:80 ,Control :21

Notice :
Default username is admin ,
password is 123456

4.3 Add All Device

Add all cameras on the map that was auto discover on the device info window.
User can move the camera icon to any location.

4.4 Delete All Device

Delete all cameras on the map .

4.5 Full Screen Mode

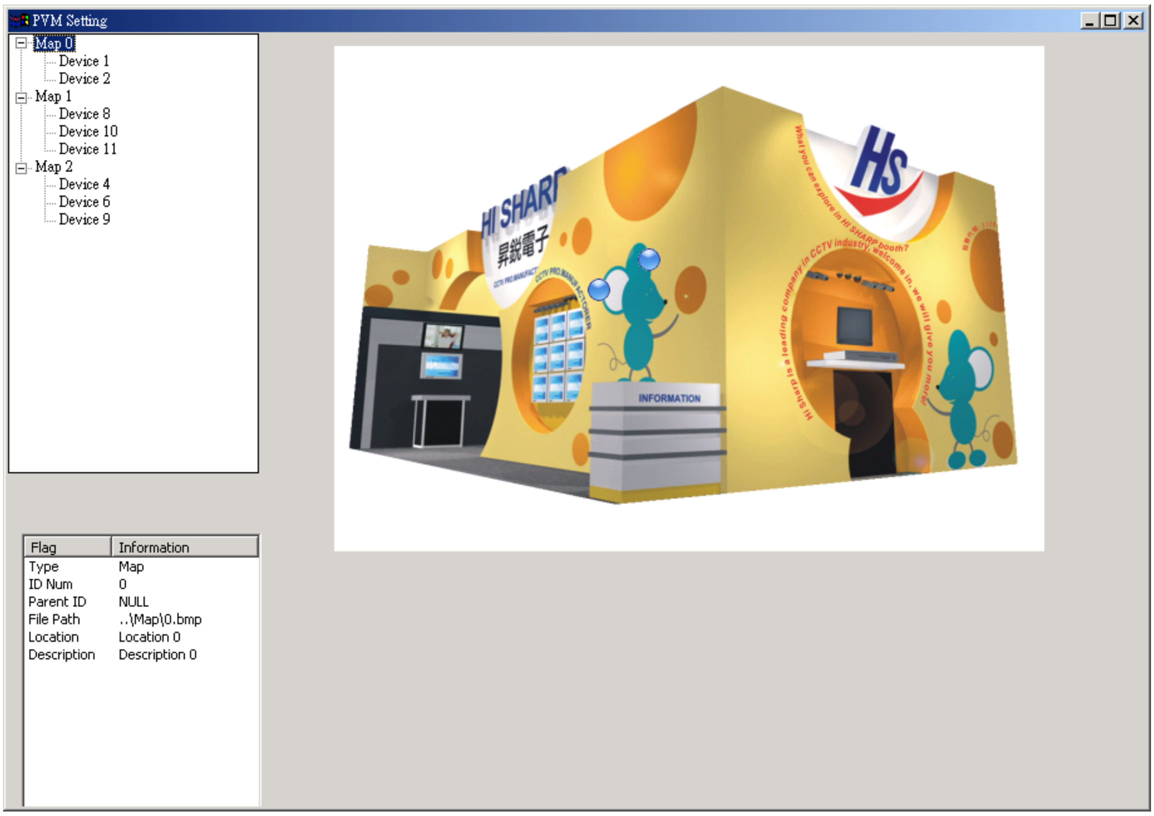
Display all cameras with full screen . Press “ESC” button to exit Full screen.

4.6 Main UI Mode

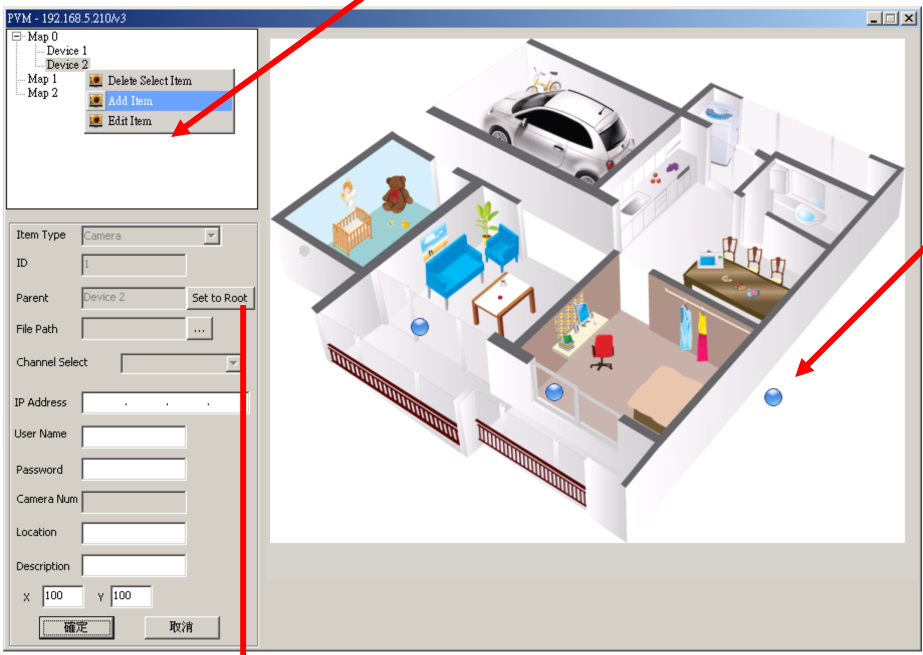
Switch to the UI mode function .

4.7 MAP Management

User can use different map to manage cameras, user friendly design let user can setup group cameras in each map .



use can add item , edit item , delete select item to setup cameras .



The small icon means IP camera location , user can use mouse move to any position .

Set to Root	**When user add a new map , need press set to root button**
File Path	Select map (BMP file format)
Channel select	Select camera
IP Address	The camera's IP address , after user select channel it will auto display
User Name	Input user name
Password	Input user password
Location	Camera location description
Description	Camera description

4.8 Next Map

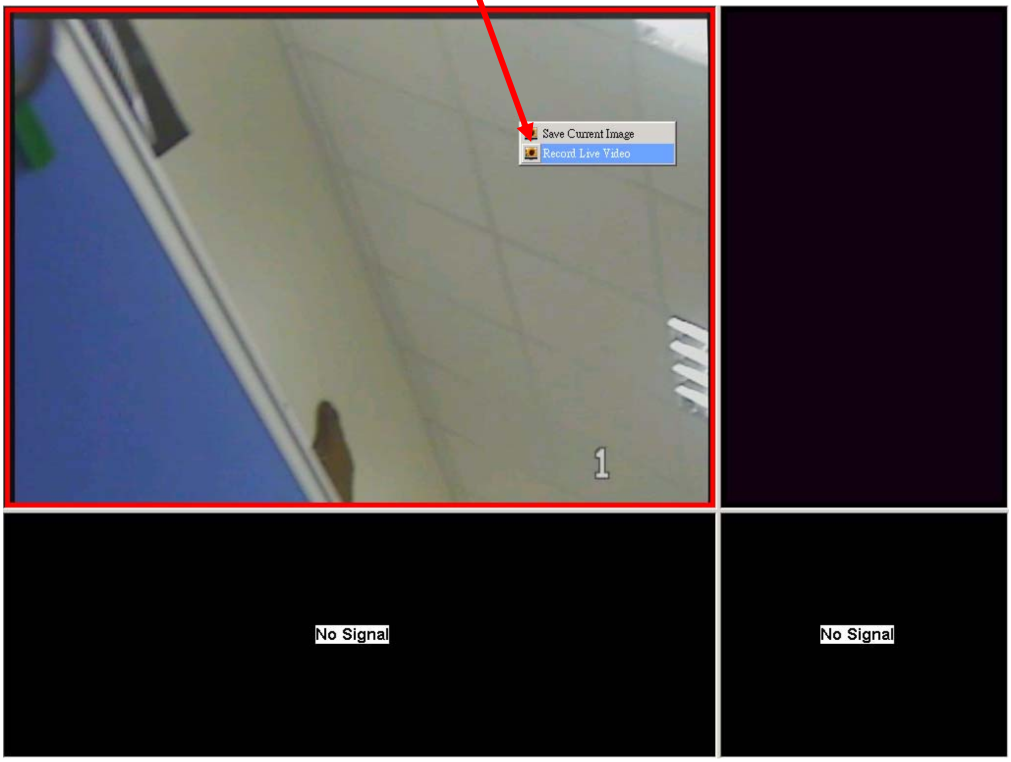
Use this function to change map, it will change the map from map management database one by one.

4.9 Exit

Quit the E-MAP program.

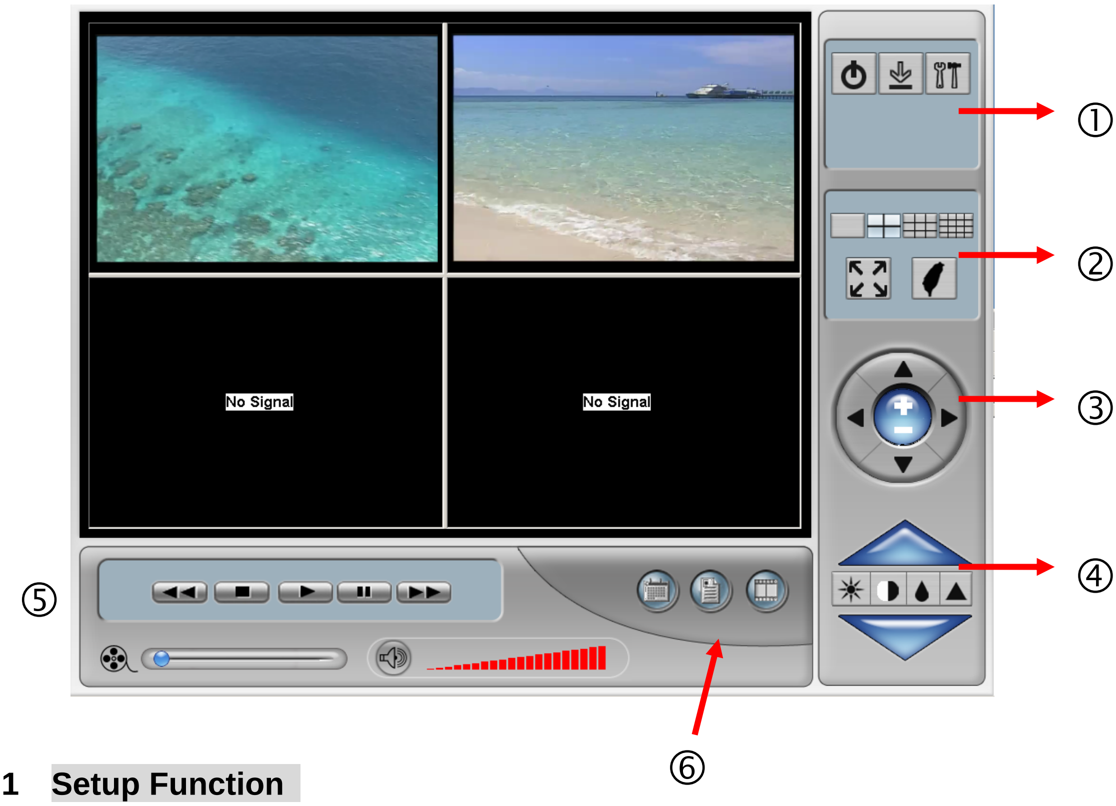
5. Full Screen mode

1. When in 4,9,16 split display window, user can use mouse to change the display windows size.
2. In active window, user can record the live video or save the current image on local computer.
3. Save image file with JPEG format.
4. Record live video with AVI format.

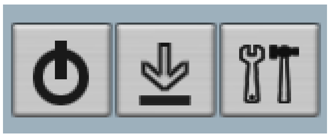


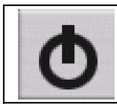
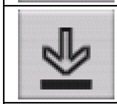
6. Main UI Mode

Use Main UI Mode to configure the media server functions , Playback function ,Time List search ,Schedule setup,Media setup, Adjust camera color , PTZ control , Switch display , Split windows .



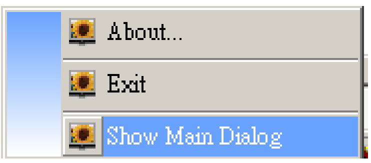
6.1 Setup Function



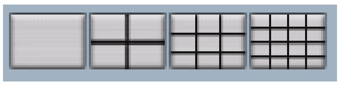
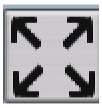
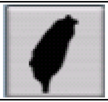
	Power Off	Quit the program.
	Minimize	Minimized the program to working bar.
	Configuration	**The PVM function setup . (Please refer to the page 43)**

Notice :

1. **When Minimized the program to working bar, it show this icon.** 
2. **On this icon click mouse right button, it show the menu , choose this function "Show Main Dialog" to return Main UI mode.**



6.2 Display mode switch

	1, 4, 9, 16 split windows display
	Switch to Full screen display
	Switch to E-MAP display

1. When in 4,9,16 split display window, user can use mouse to change the display windows size.
2. In active window, user can record the live video or save the current image on local computer.



6.3 PTZ Control Function

Use the PTZ Control panel to control PTZ camera.



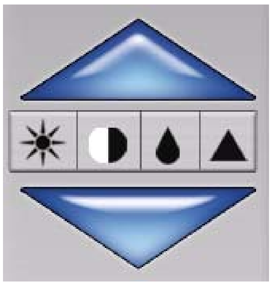
Press the directory key to move the PTZ camera direction.
Press the “+”or “-“ key to Zoom in/Zoom out the PTZ camera .

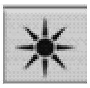
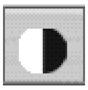
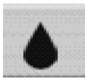
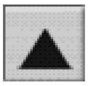
Notice :

Before using the digital Zoom in/Zoom out function on build in camera , user have to disabled the camera’s WDR function.

6.4 Camera Color Adjustment

Use the color adjustment control panel to setup the brightness, contrast, saturation, sharpness. Users have to choose a channel before using arrow to increase or decrease these setting values.

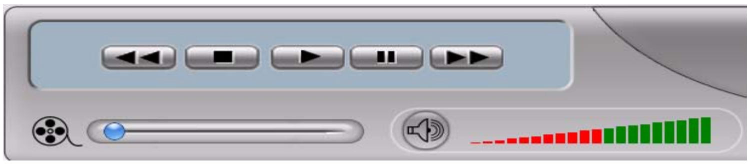


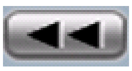
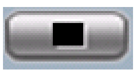
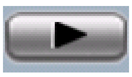
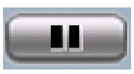
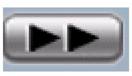
	Adjust the brightness
	Adjust the contrast
	Adjust the saturation
	Adjust the sharpness
	Increase the setting value
	Decrease the setting value

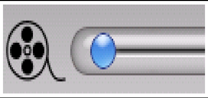
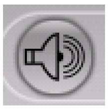
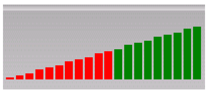
6.5 Play Function

Play local computer media file , codec support AVI and H.264 format .

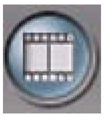
Each channels have it's own play setting, different play setting depend on user behave.



	Reverse	play video Slowly
	Stop	Stop Playing video
	Play	**Open local media file and Play video**
	Pause	Pause play
	Fast Forward	Faster play video

	Video locate	Use mouse to move the location
	Mute	Mute channel voice
	Voice adjustment	Adjust the voice volume

6.6 Media Function Setup

	Media Schedule Function setup
	Event log list by date –time
	Schedule record setup

Notice :

Media Content file format setting:

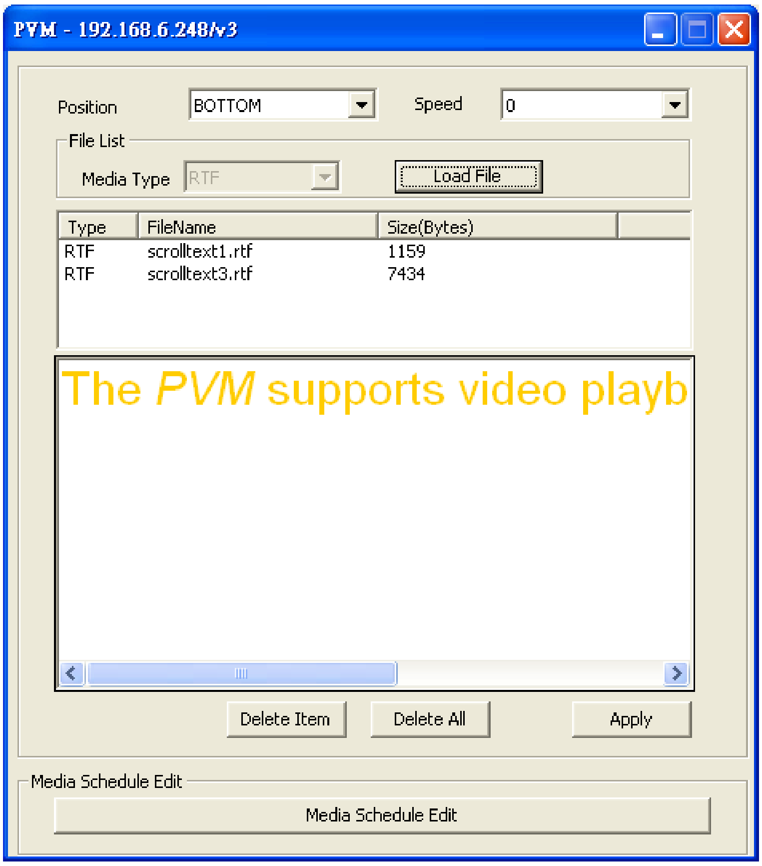
1. **Image file support JPEG format , it does not support BMP format.**
2. **The image file should be 704x480 pixels. (recommend)**
3. **Audio file only support mp3 file format and sample rate must be 48kHz.**
4. **The media content must be mp3+JPEG or H.264 file format.**
5. **Video file only support H.264, other file format should be converted. Please use the Video conversion software.**
6. **The Video conversion software only support mpeg1,mpeg2 ,VOB source input.**
7. **Scroll text only support RTF file format. User can use word or wordpad software to edit scroll text.**
8. **Scroll text minimum is 30 character and maximum is 255 character.**
   Font size is 22 ~ 30 (Recommend).

6.6.1 Media Schedule Function Setup

Media Schedule provides the scroll text and Media content upload function.

User can setup the schedule function on local computer and use FTP upload to the PVM device.

The PVM will follow the media scheduling time to play media contents.

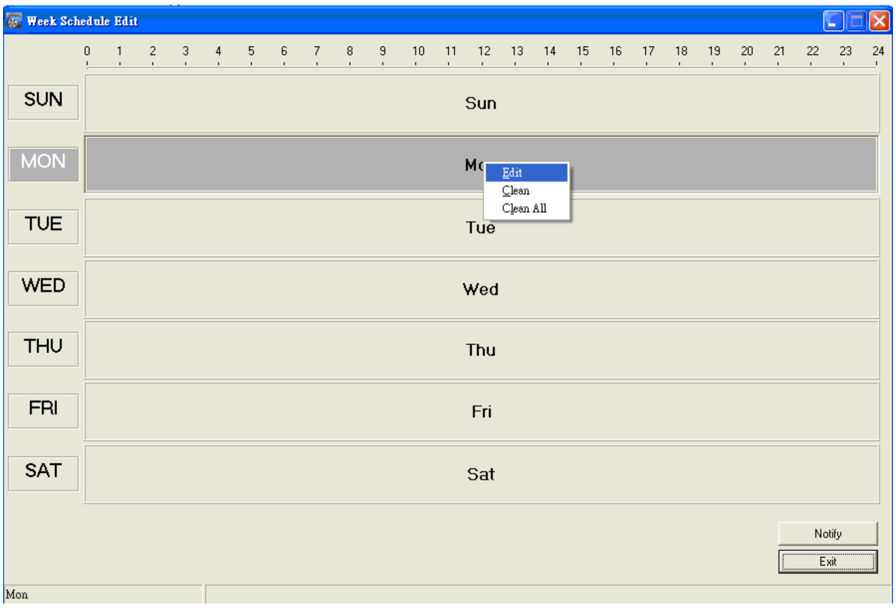


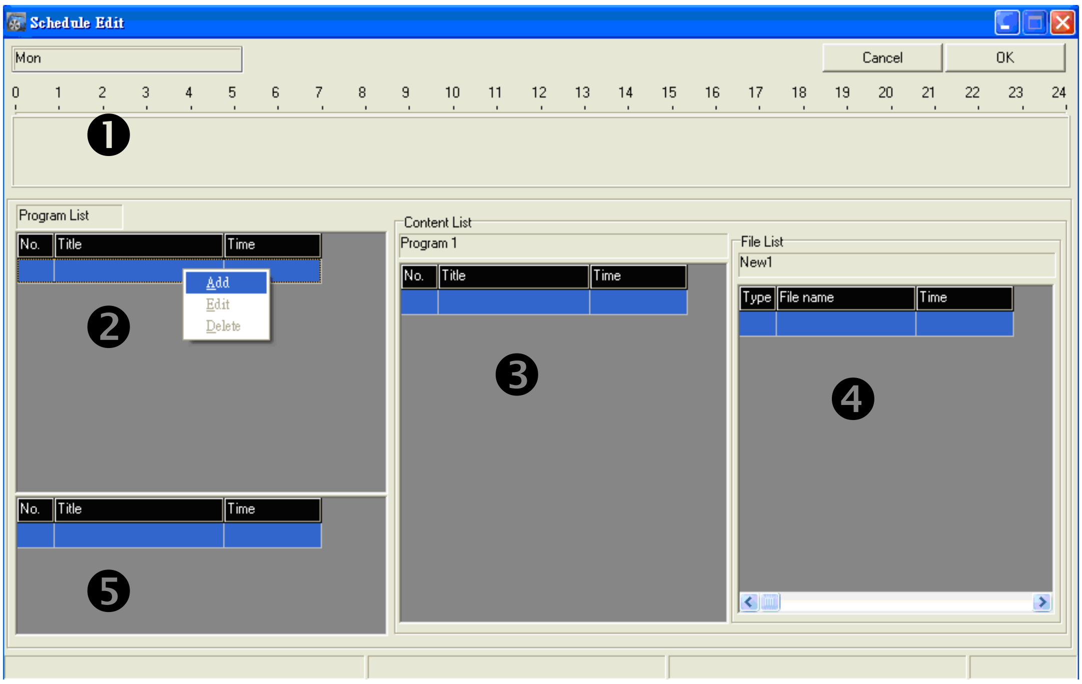
Position	Setup the scroll text position (Bottom)
Speed	Setup the scroll text speed
File list	List all the scroll text file If file list more than one file , it will sequence play one by one .
Media Type	Scroll text media type only support RTF file format
Load File	Load local pc text file
Delete Item	Delete the file that user selected
Delete All	Delete all files that user selected
Apply	Apply the scroll setup
Media Schedule edit	Setup the media scheduling function.

Notice :

1. **User have to saved the text file with RTF format . (use the word or wordpad program)**
2. **After user apply the scroll text , it will upload to the PVM and update scroll text immediately .**

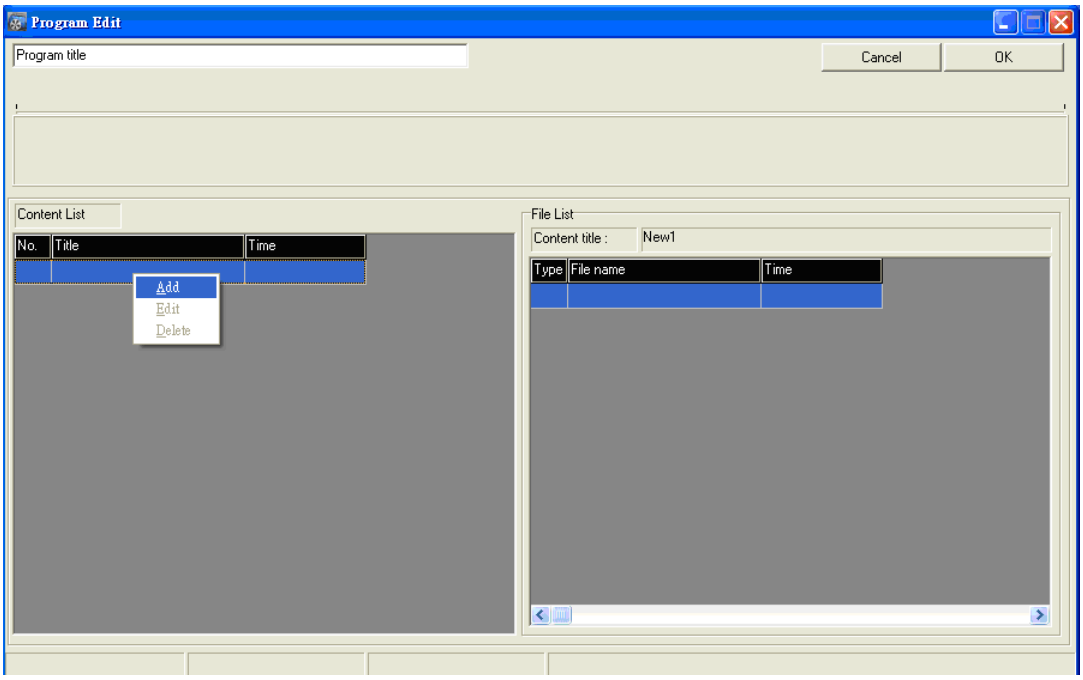
Media schedule setup as below picture , use week schedule edit (from Sunday to Saturday)
User use mouse click the desire day and then click mouse right button , it show the menu ,
Choose the Edit function to Add/Edit the media scheduling .



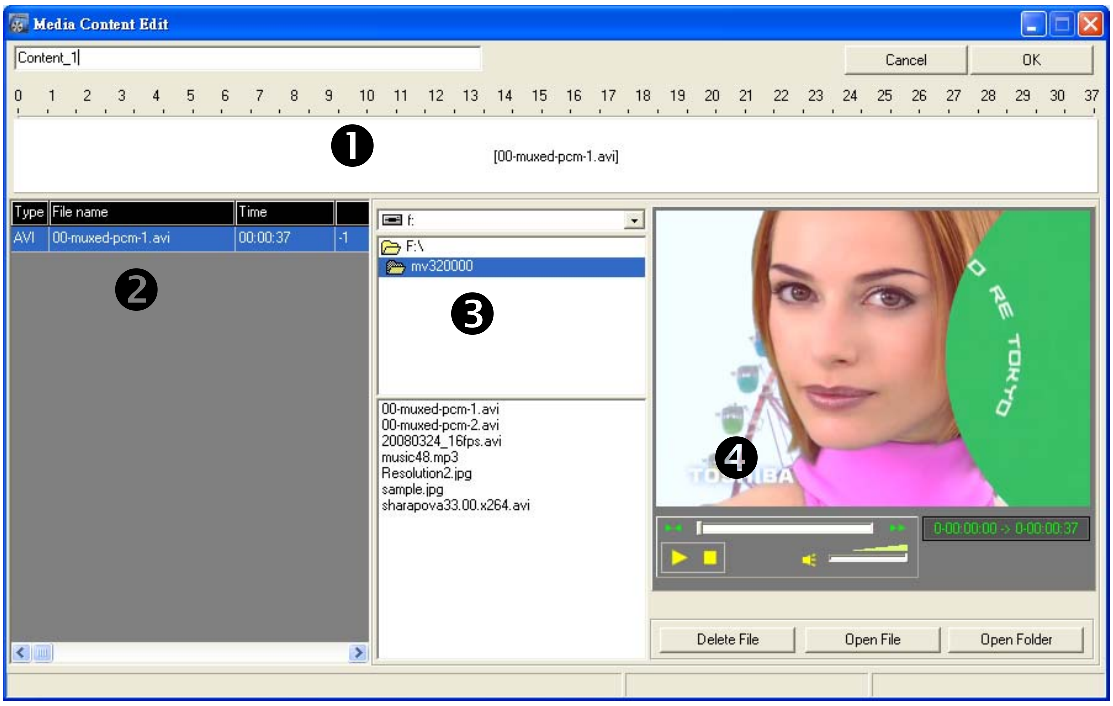


❶	Time bar , from 0 to 24 hours . User can use mouse to drop the program list to the time list bar .
❷	Program list , means media program that user have been setup finished . Program include Content list.
❸	Content list , means media content list . Content list include file list.
❹	File list , means media file.The system support H.264 file format and mp3+jpeg format.
❺	Program list , means media program that user have setup at time list bar .

Click mouse right-button to add new Content list :

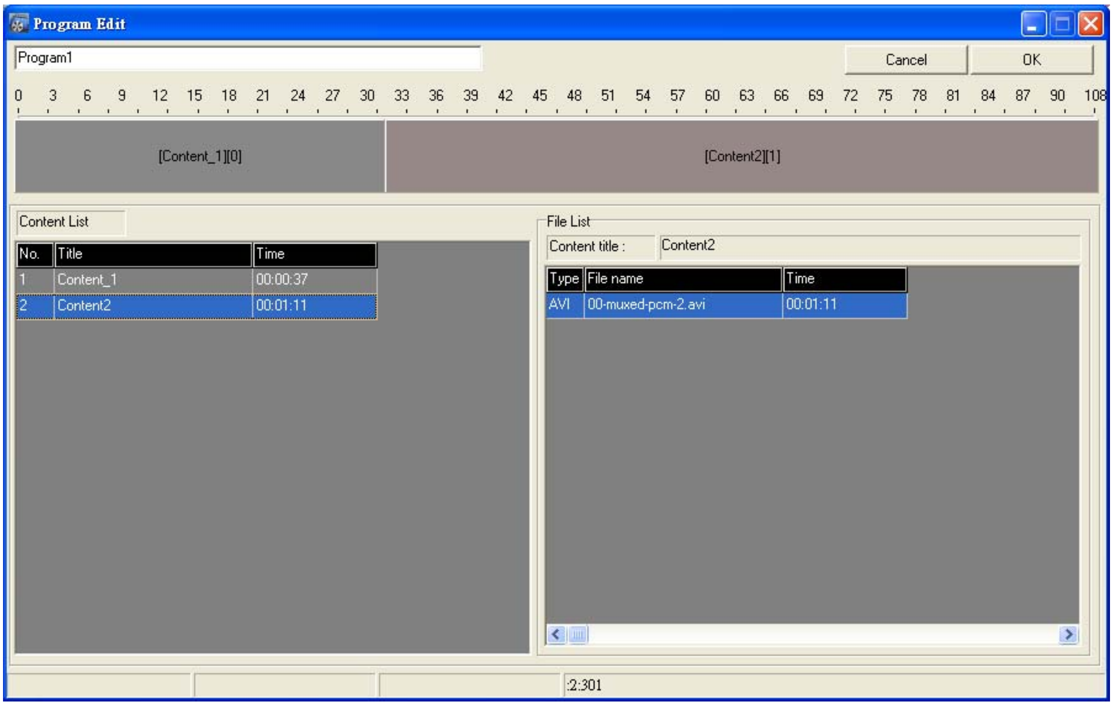


Media Content list as below picture ,

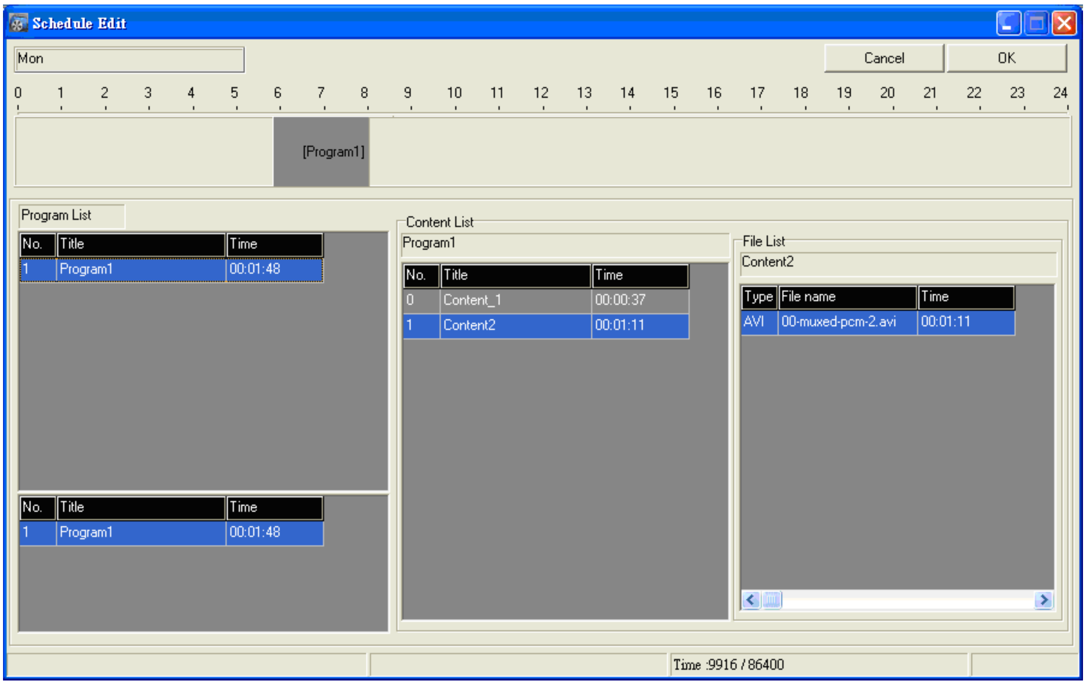


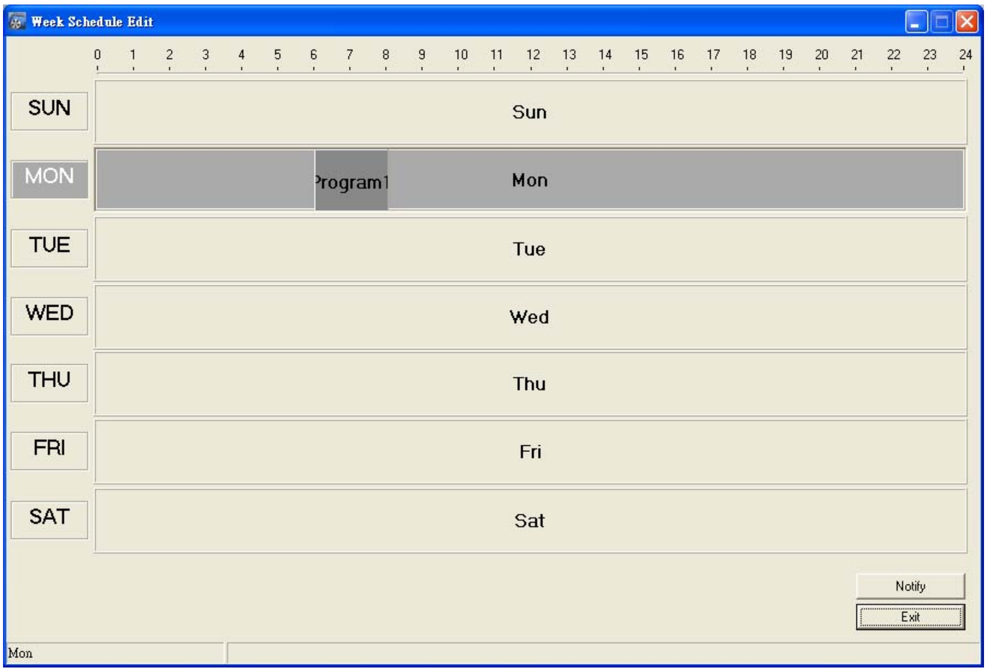
❶	Media content time bar , means media play time
❷	Media content files list
❸	Local computer file folder
❹	Choose the file and preview (play) the file content

After user finished the Content list setup , user have to move the content to the time bar .
Below picture show that two content file on the time bar .
On the time bar , user can click mouse right button to delete content file . After user updated
Press OK button to exit the Program edit

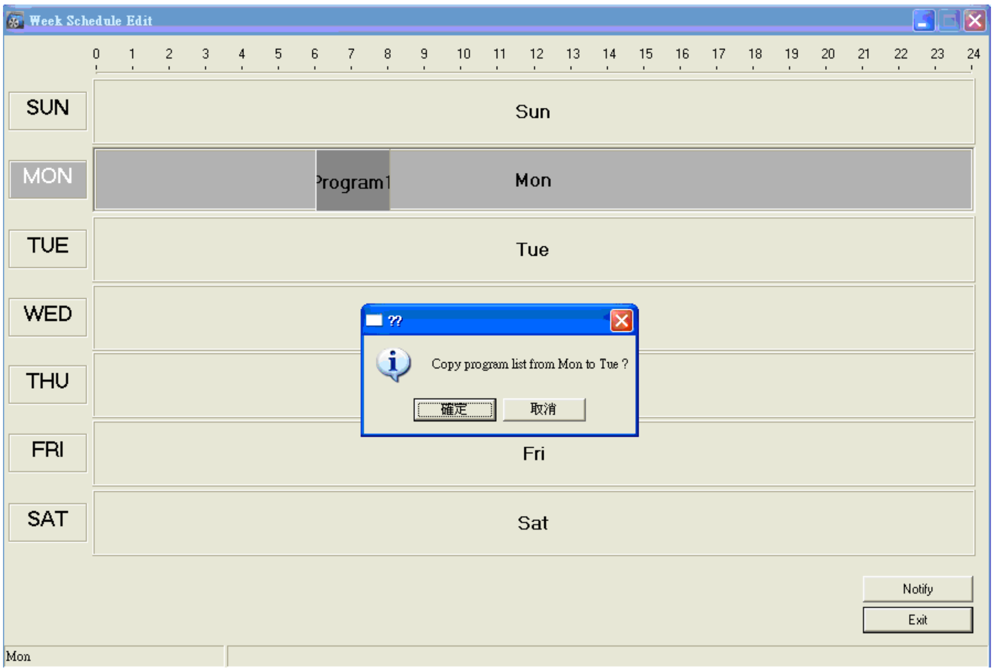


The below picture show that , program list only have one program , time length is 1 min 48 seconds. and include 2 content files.
User have to move the program1 to the time bar, for example put it on the time bar 6 ~ 8 position.
It means that It will play the program1 at 6 o’clock and repeat play until 8 o’clock.
Use the mouse to change the program1 time length.
After setup finished Press OK button to exit the Schedule edit





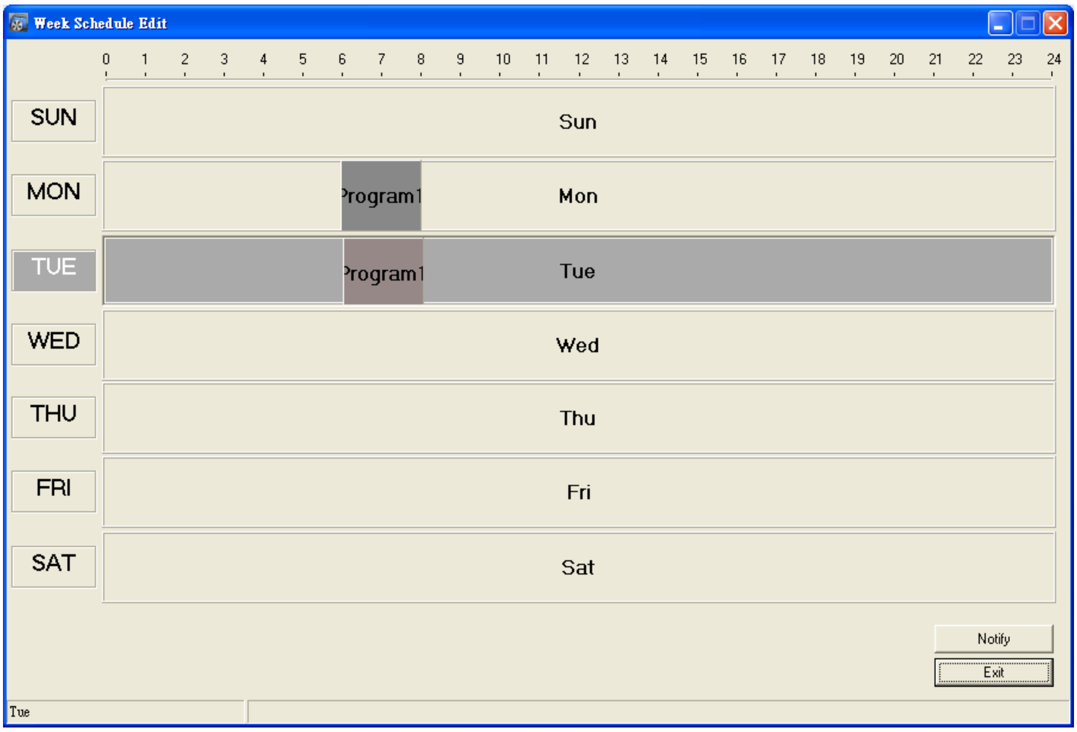
If user need to setup week schedule as same with Monday, just use the mouse click the program1 and drag to the desire day , it display confirm dialog as below picture.



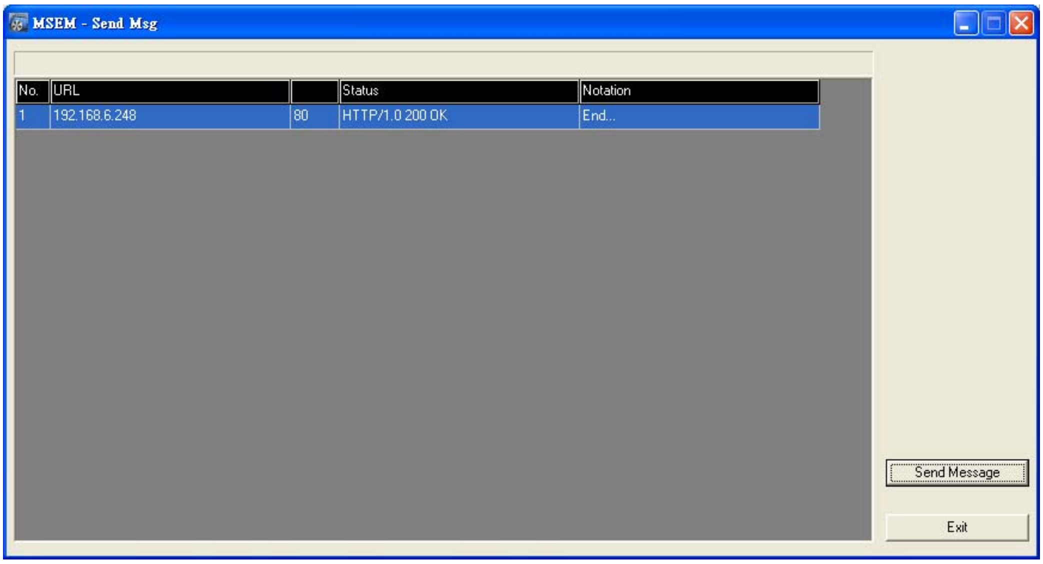
After click OK button to confirm , the Tuesday schedule will be the same with Monday ,
See below picture. After week scheduling setup finished , press Notify button upload the Media schedule to the PVM device .

Notice :

Before upload to the PVM device, user have to setup the FTP server IP address at first.
From [Media] -> [Media Center] -> [Server]
Input the local PC IP address , (Local PC as a FTP server)
(Detail Please refer to the Page 52)

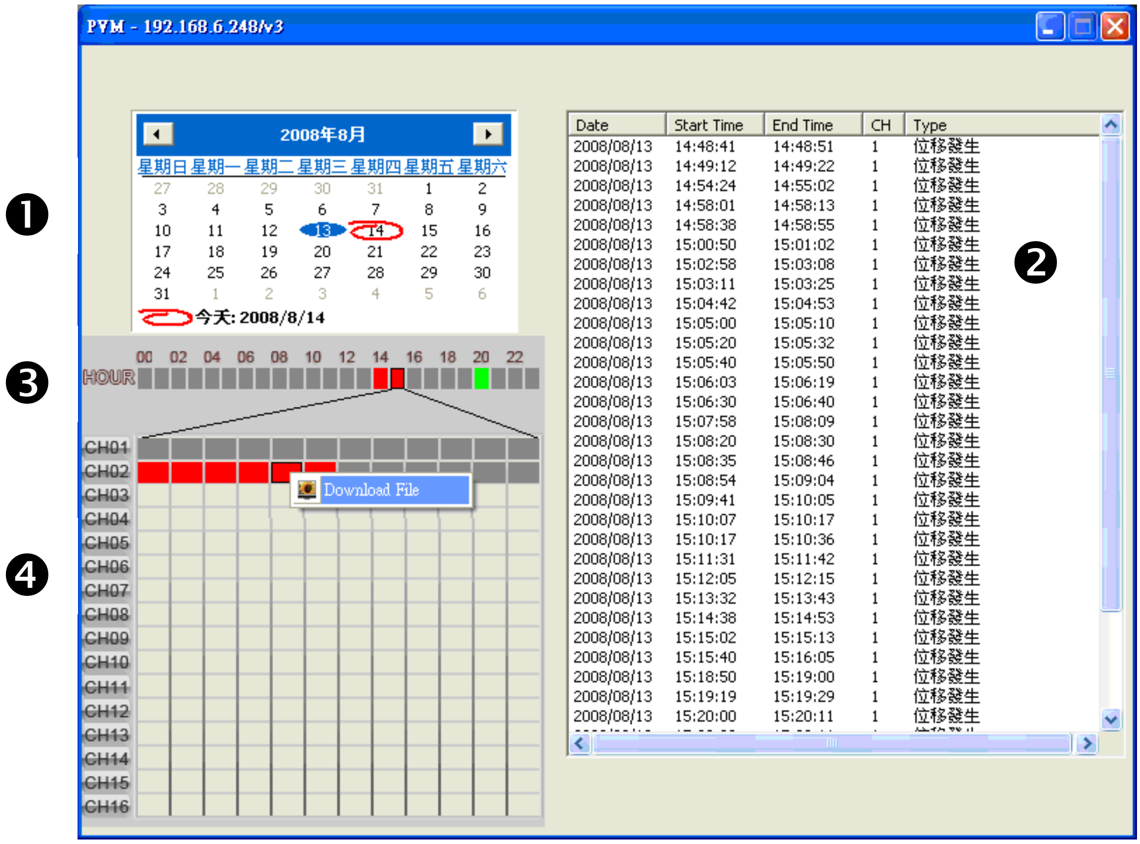


Press Send Message button , it will upload the media content to the PVM device .
See the below picture .



6.6.2 Event Log List

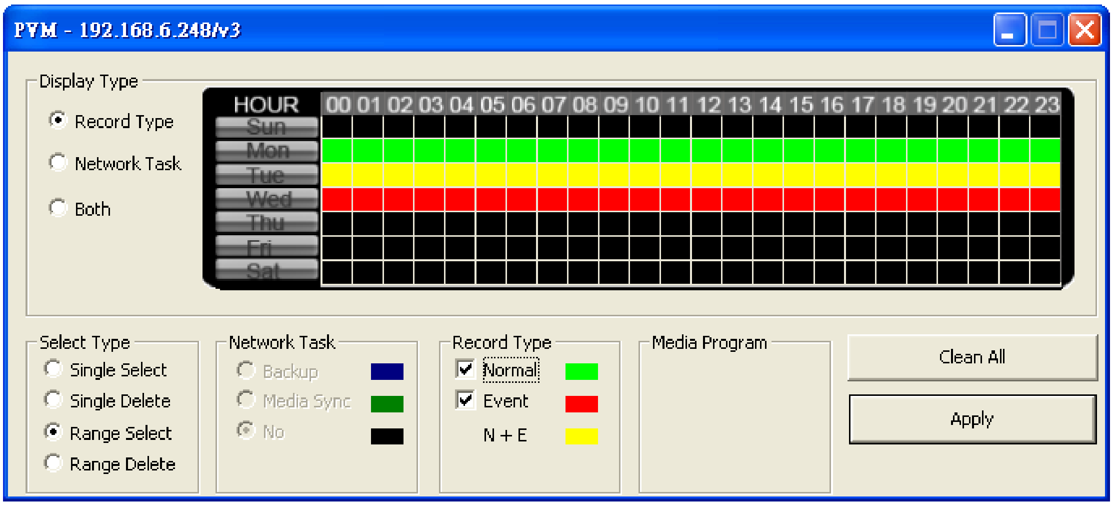
The event log function list all PVM event log messages as below



❶	Calendar function, user can choose the desire date then show the event log at right side window . Blue color date means user selected date Red color date means today
❷	List the user selected date all PVM event , event log include system log , motion log and alarm log .
❸	The hours time bar list from 00 ~ 24 hour , for example , when user chose the date 8/13 , it show that at 15:00 had event log occurred and filled with red color . Red color means occurred event (motion / Alarm) Gray color means no event happened
❹	The channels list , when user click the hour time bar (red color) , it will spread up the channel list with red color . A grid means 5 minutes . User can click mouse right button to download this grid (5 minutes) video image to local computer. File format is AVI format .

6.6.3 Schedule Record Setup

Setup the PVM scheduling function , two type of Schedule : Record and Network Task



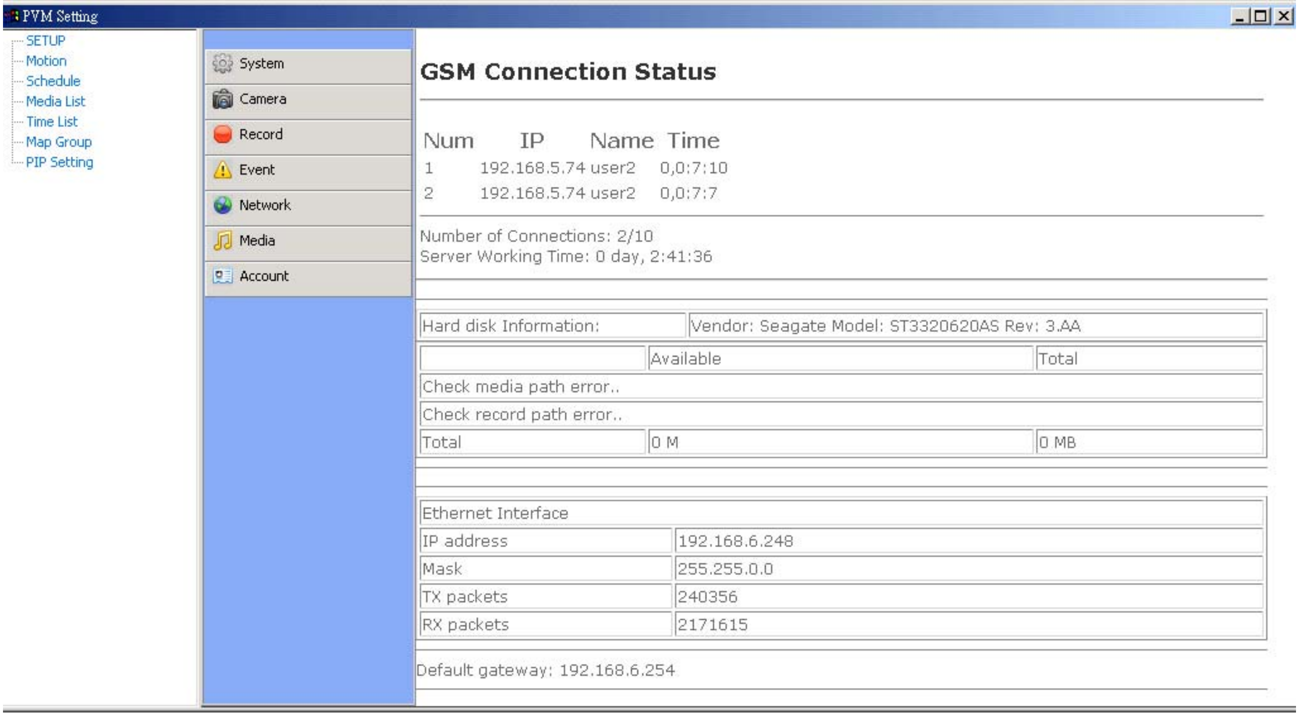
Use the color format and detail description as below

After user finished the record scheduling setup , press Apply button , the PVM device will sync with the local computer and follow the scheduling to record.

- : Normal Record
- : Event Record
- : Normal & Event Record
- : Normal & Event Record
- : Normal & Event Record
- : Nothing

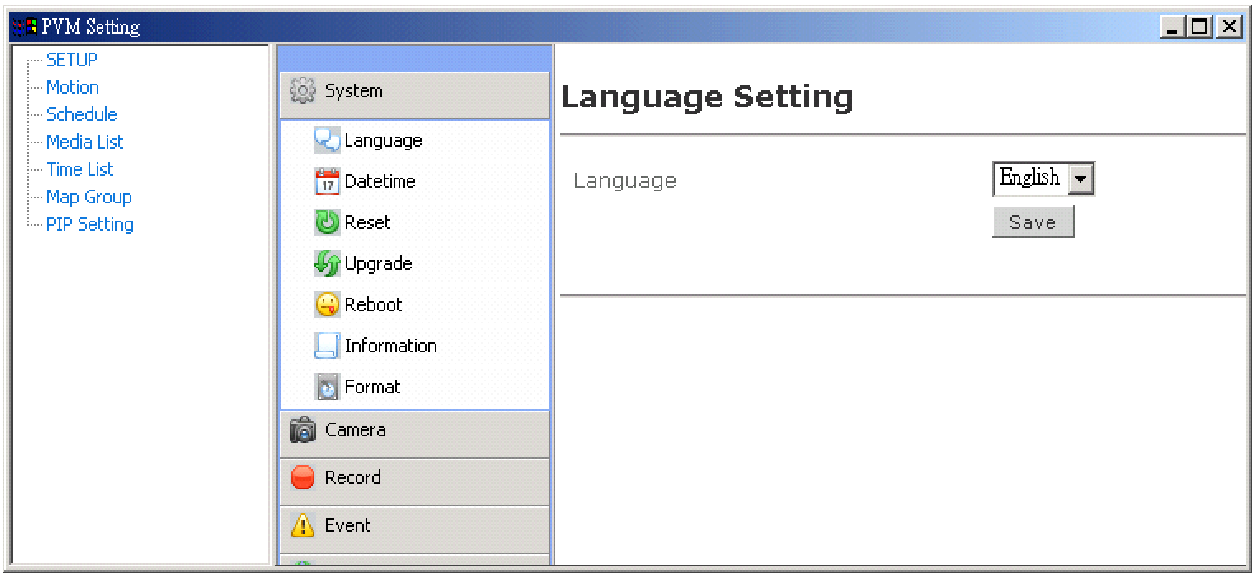
7. PVM Function Configuration

User need username/password to login system **(default username is admin, password is 123456)** After login successful, it will display the PVM information at right side , the PVM function configuration menu as below .



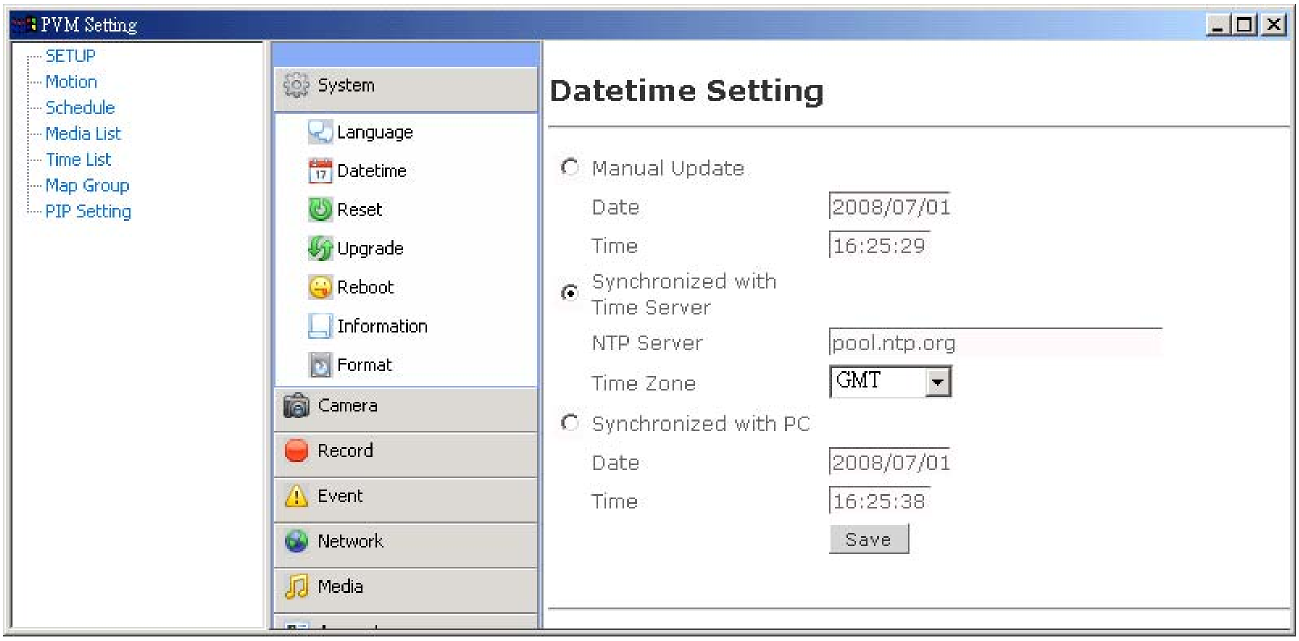
7.1 System

7.1.1 Language



Change the default language, support English / Chinese

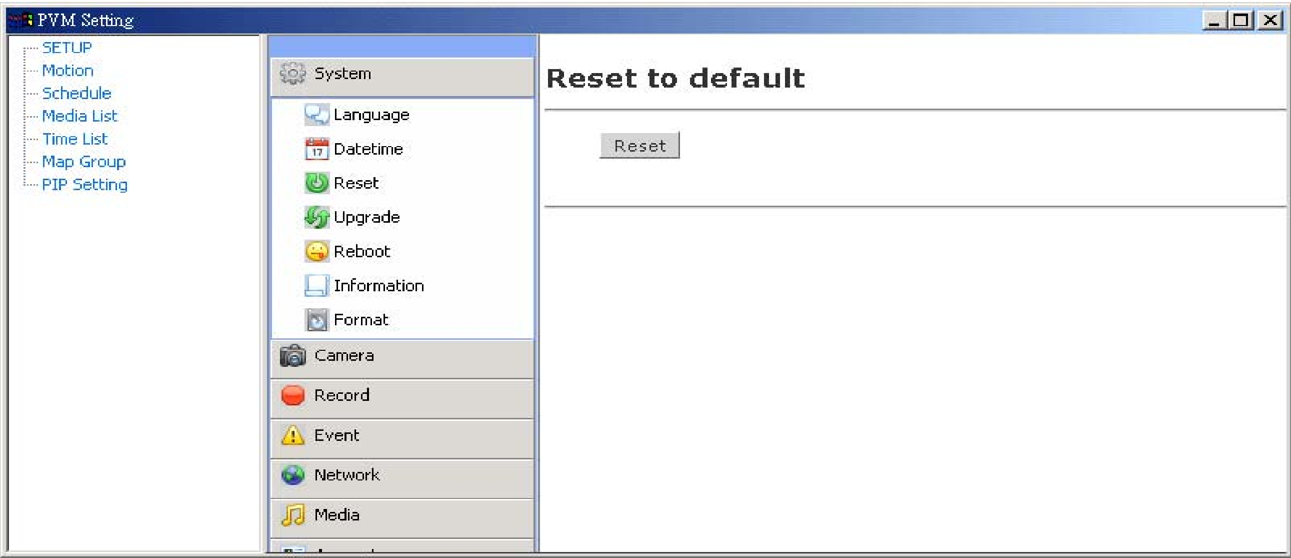
7.1.2 Date-Time Setting



Setting the PVM date-time

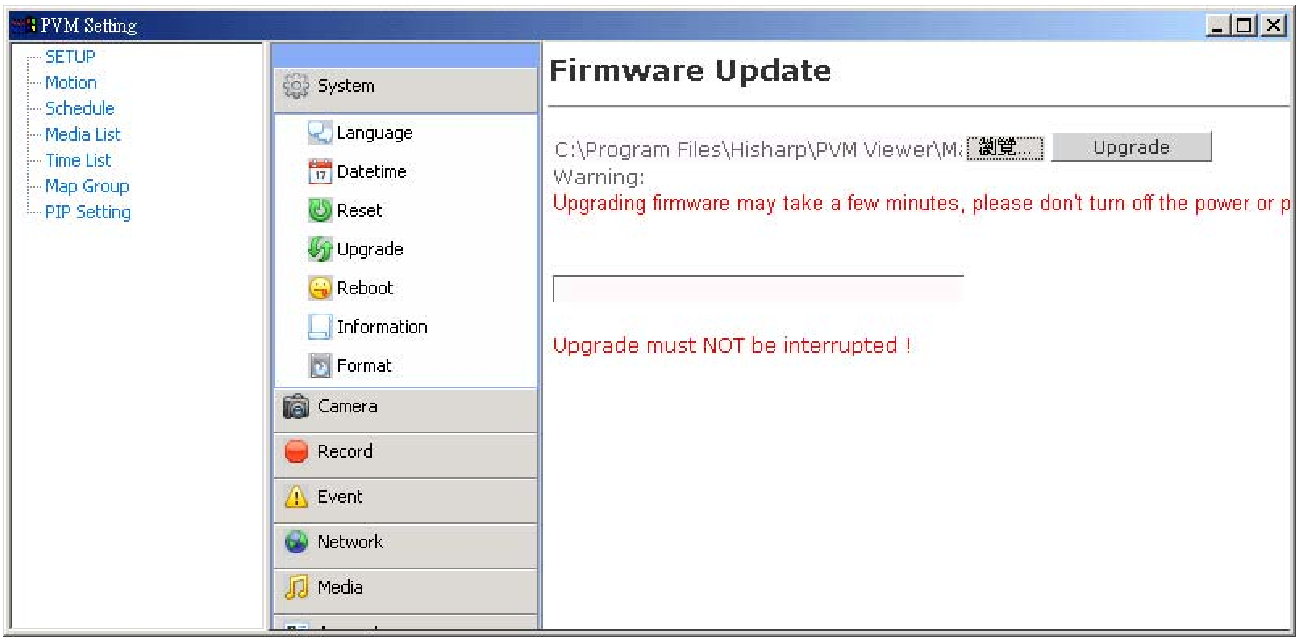
Manual Update	Setup by manual
Date	Setup date by manual
Time	Setup time by manual
Synchronized with Time Server	Synchronized with Network Time Server.
NTP Server	pool.ntp.org (Default).
Time Zone	Setup Time Zone
Synchronized with PC	Synchronized with computer
Date	Synchronized with computer date
Time	Synchronized with computer time

7.1.3 Reset

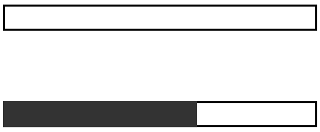


Reset all setting values to default values

7.1.4 Upgrade



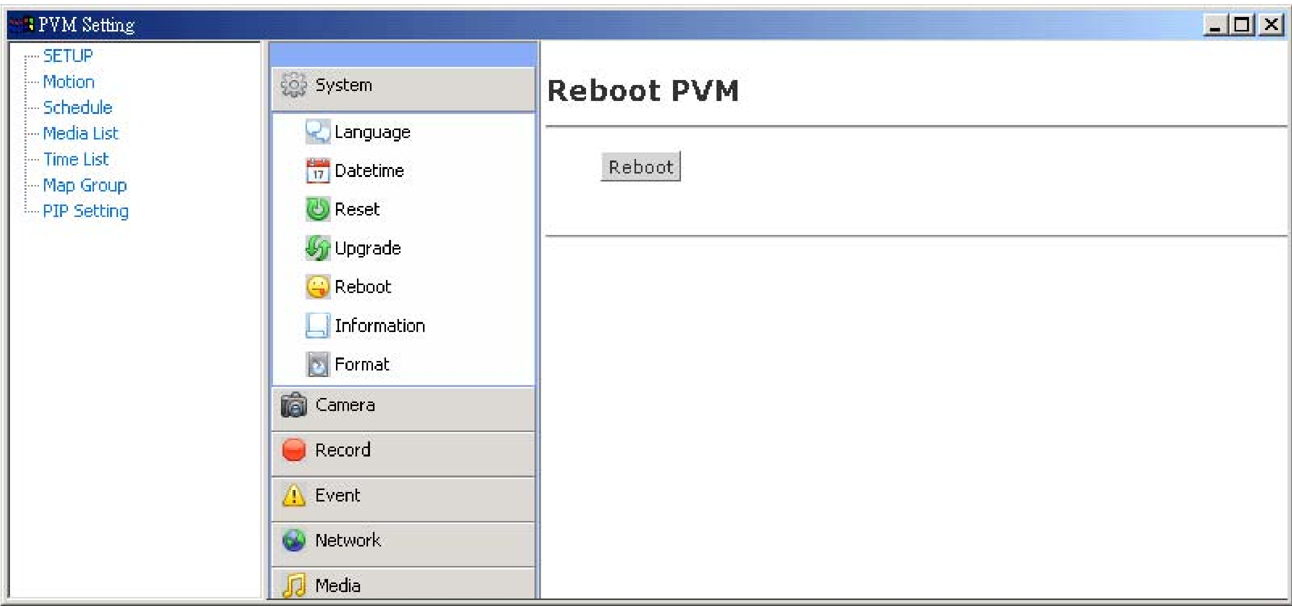
Select in-coming source and then click update to start updating.



Updating process bar.

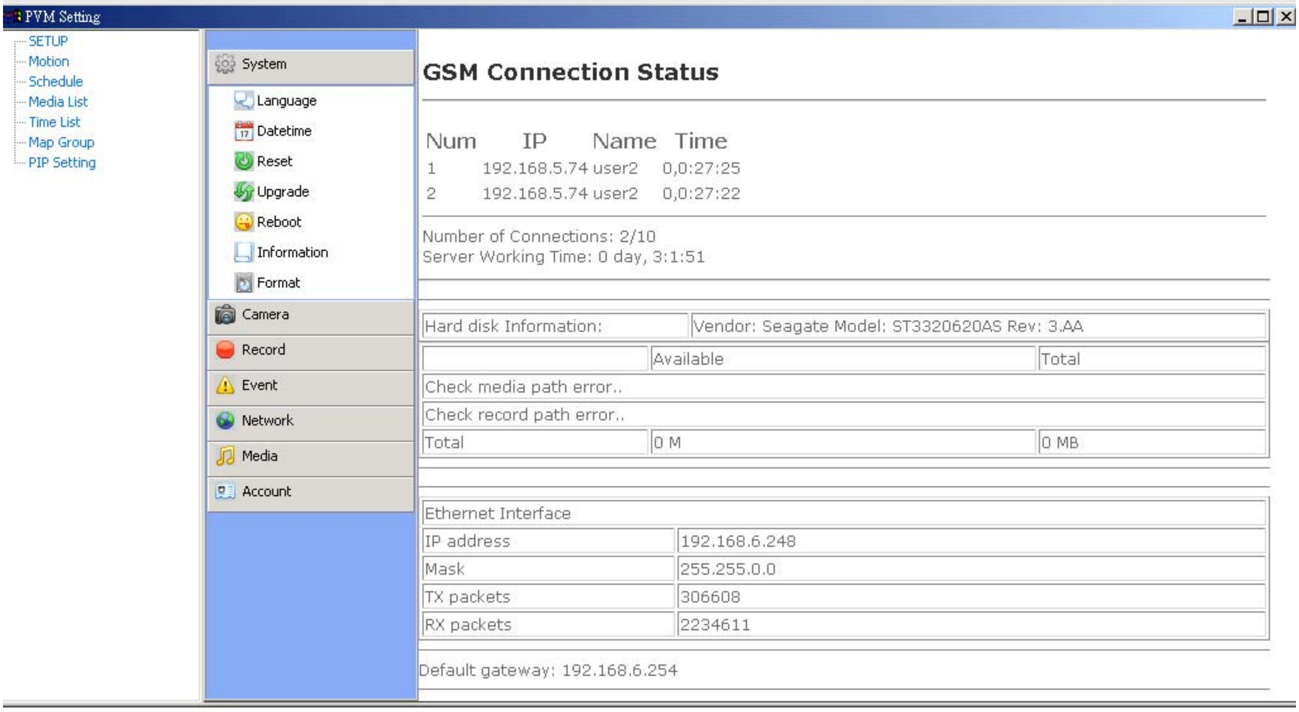
1. Please go to reset page and reset to default after version update.
2. Please do not update firmware when your network is busy .

7.1.5 Reboot



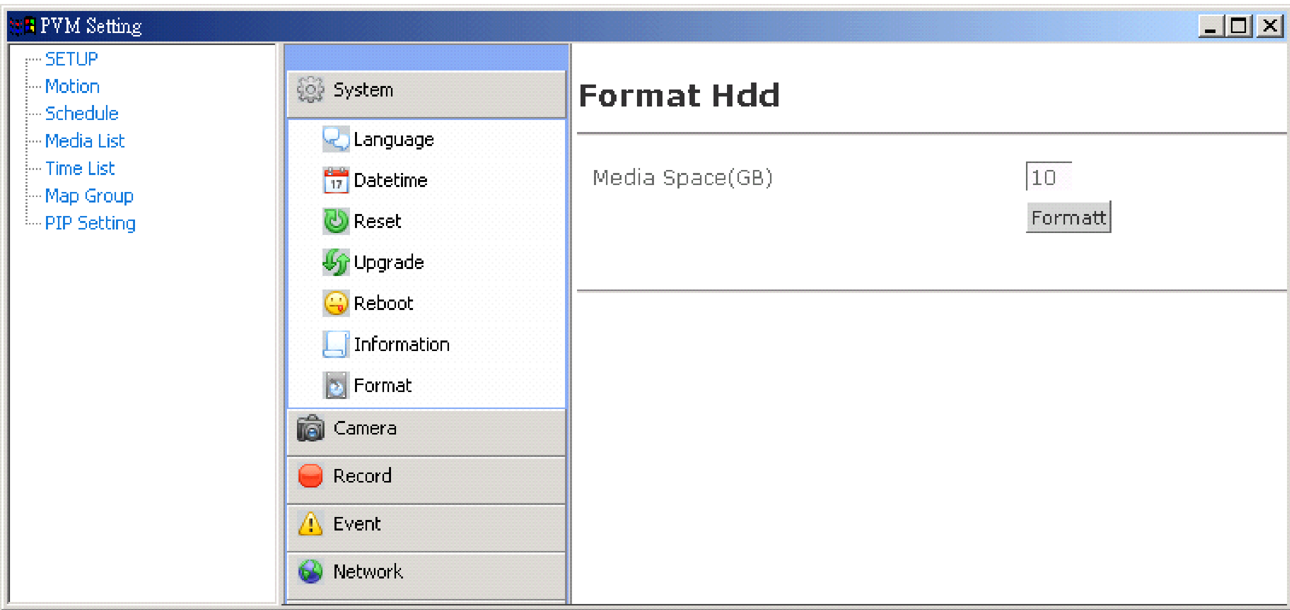
Re-boot the PVM device

7.1.6 Information



1. Display the connection Status of the PVM
2. Client connection status .
3. PVM hard disk information (HDD mode , total size and available size).
4. Network information (IP address , default Gateway , TX / RX packets).

7.1.7 Format HDD



Notice :

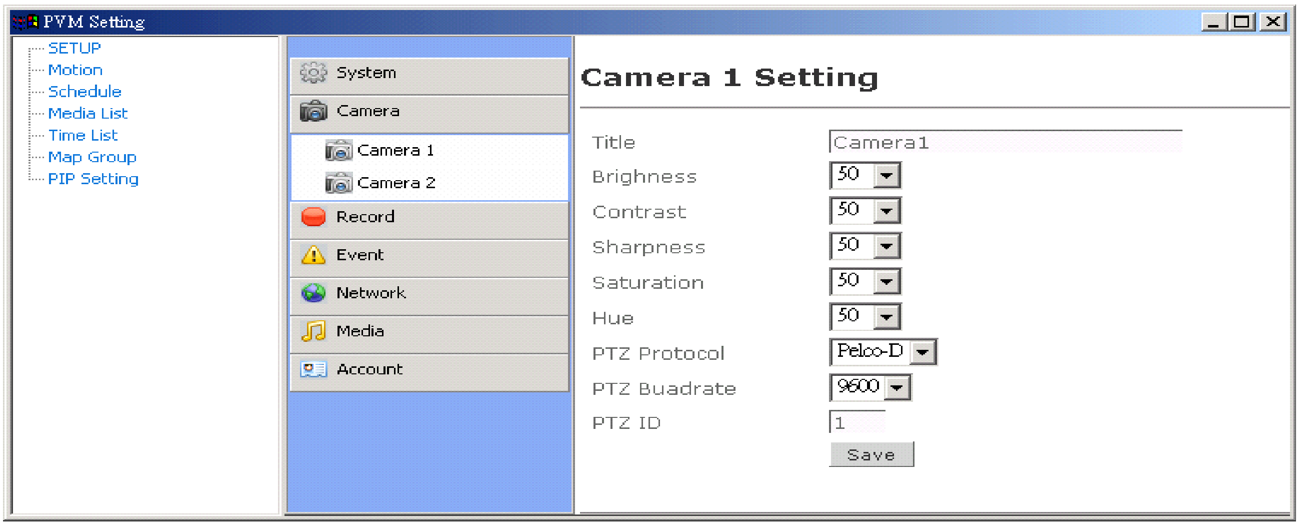
1. HDD is 3.5 inch SATA interface , it supports Seagate , Hitachi and WD brand.

2. Maximum supported hard disk is 1TB size.

3. This PVM only supports 1 HDD installed.

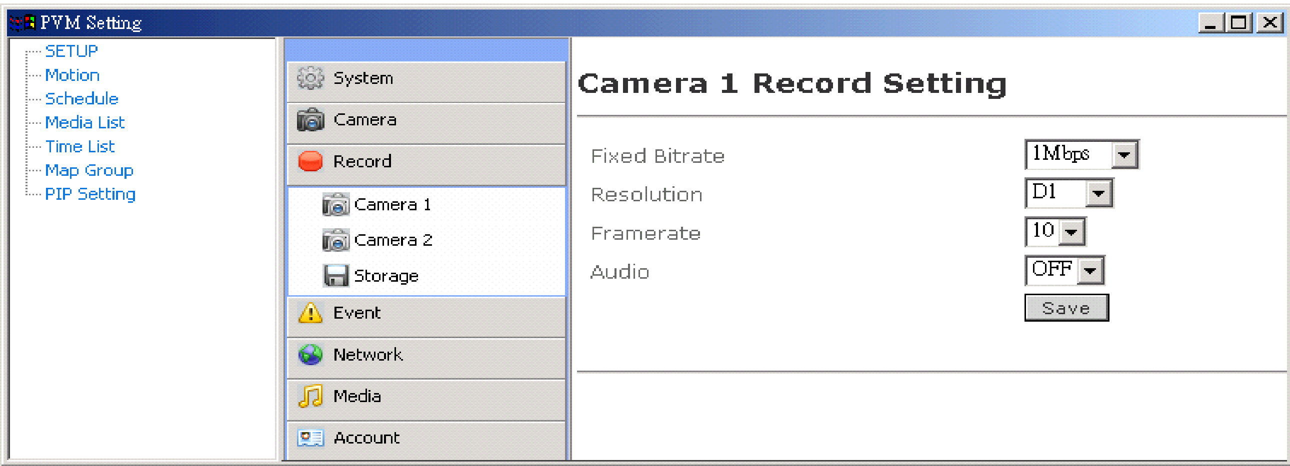
7.2 Camera

Use this function to setup the Camera , the PVM provides two cameras connect,



Title	Setup the Camera's display title
Brightness	Live image brightness adjust. 0 ~ 100
Contrast	Live image contrast adjust. 0 ~ 100
Sharpness	Live image sharpness adjust. 0 ~ 100
Saturation	Live image saturation adjust. 0 ~ 100
Hue	Live image hue adjust. 0 ~ 100
PTZ Protocol	Support Pelco-D & Pelco-P
PTZ Baud rate	Setting the PTZ camera transmit baud rate , 2400 / 4800 / 9600
PTZ ID	Setting the PTZ camera ID number

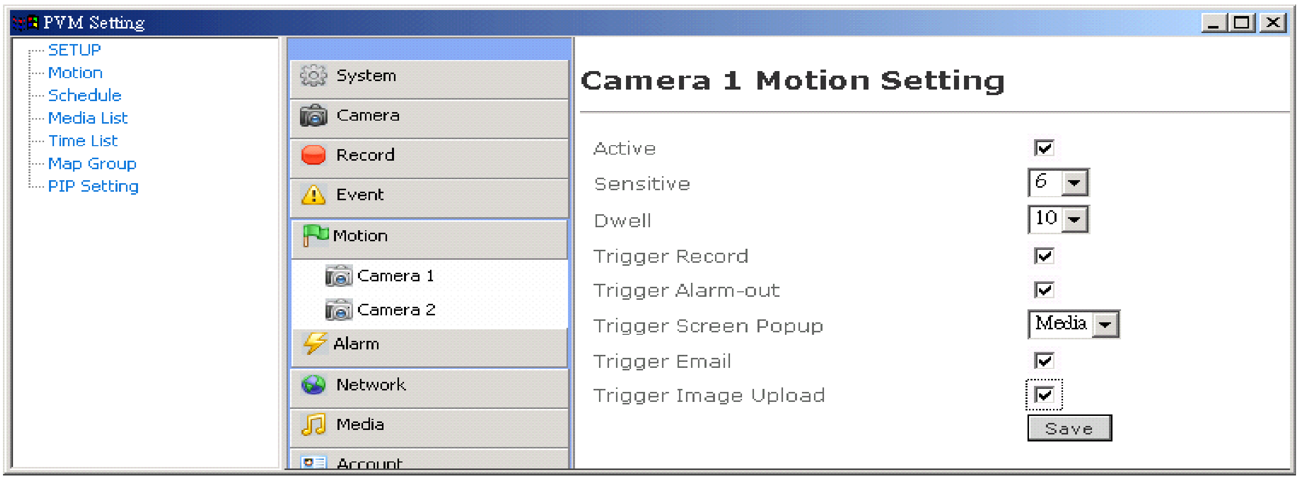
7.3 Record



Fixed Bit rate	Image resolution is subjected to the transmit speed From 1 Mbps ~ 4 M bps
Resolution	Video resolution selection (QCIF:176x120 / CIF:352x240 / D1:720x480)
Frame rate	Scanning frame per second among internet (1 / 5 / 10 / 15)
Audio	Enable / Disable the audio record .

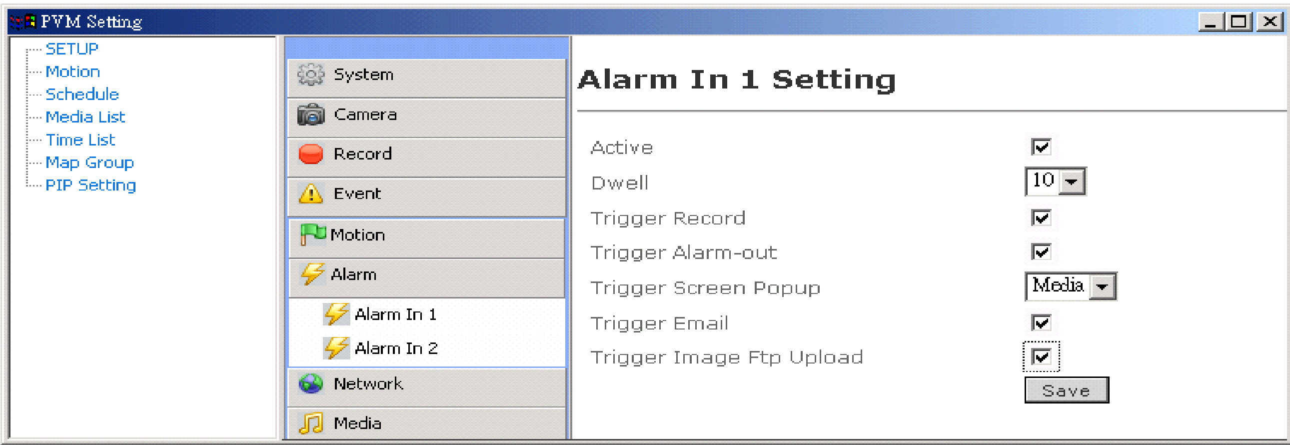
7.4 Event

7.4.1 Motion



Active	Active the motion detection
Sensitive	0% (low) ~ 10%(high)
Dwell	Motion trigger dwell time (10 ~ 60 seconds)
Trigger Record	When motion trigger , record the motion event
Trigger Alarm-out	When motion trigger , enable the alarm output
Trigger Screen Popup	When motion trigger , Screen popup (Media / Event / swap/ None)
Trigger Email	When motion trigger , send E-mail to user
Trigger Image Upload	Upload the trigger image

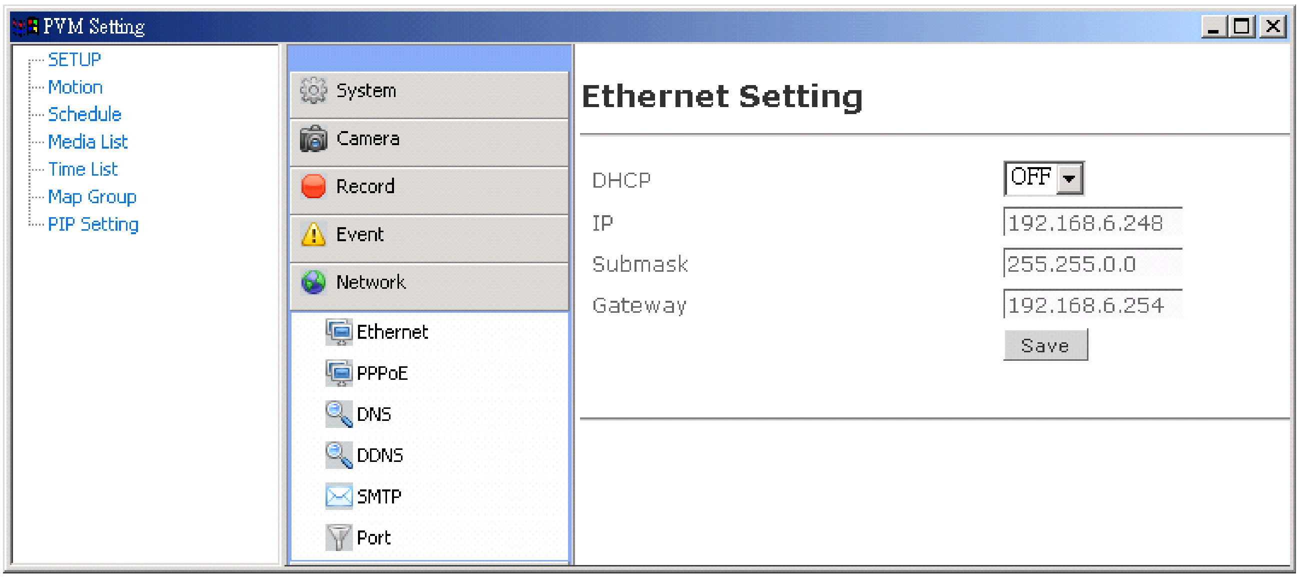
7.4.2 Alarm



Active	Active the alarm in
Dwell	Alarm in trigger dwell time (10 ~ 60 seconds)
Trigger Record	When alarm in trigger , record the event
Trigger Alarm-out	When alarm in trigger , enable the alarm output
Trigger Screen Popup	When alarm in trigger , screen popup (Media / Event / swap/ None)
Trigger Email	When alarm in trigger , send E-mail to user
Trigger Image Ftp Upload	Upload the trigger image

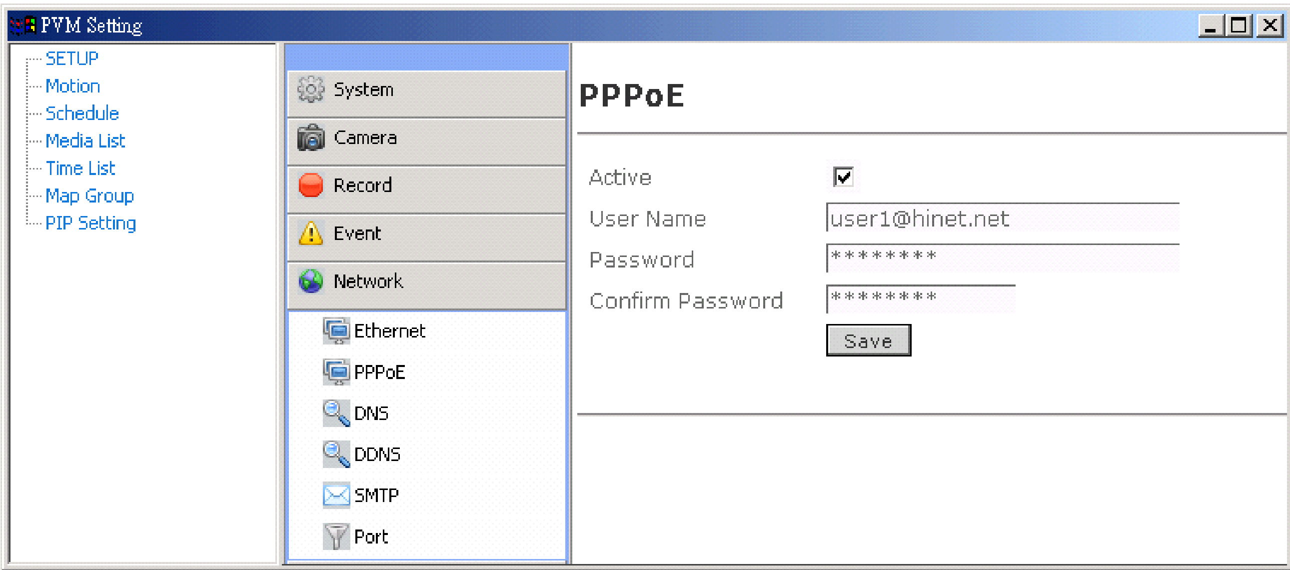
7.5 Network

7.5.1 Ethernet



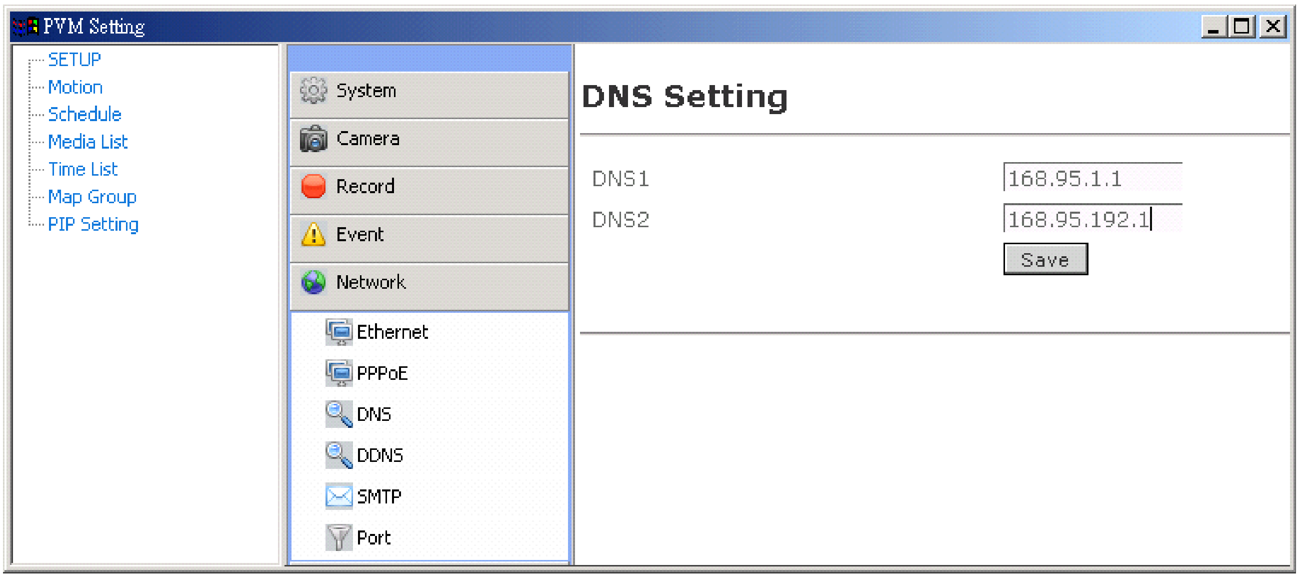
DHCP	ON / OFF (If set ON , the local LAN need a DHCP server)
IP	Input the Fixed IP address (if DHCP set off)
Submask	Input the Subnet mask (if DHCP set off)
Gateway	Input the Gateway (Router) IP address

7.5.2 PPPoE



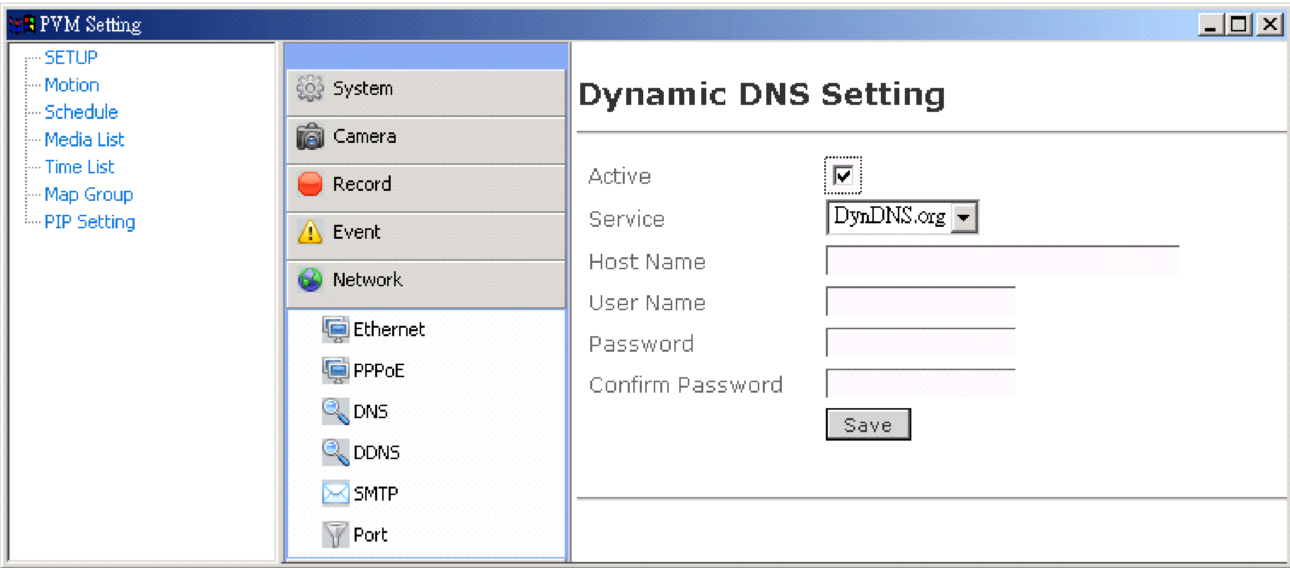
Active	Enable the PPPoE function
User Name	User network dialup login name
Password	User network dialup login password
Confirm Password	User login password confirm

7.5.3 DNS



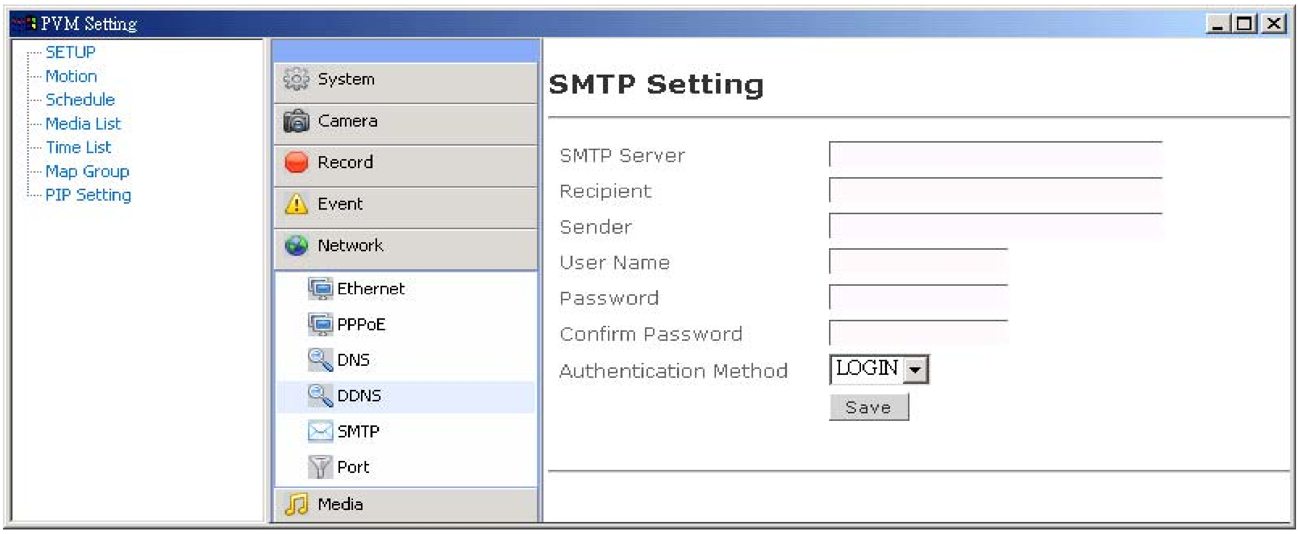
DNS1	Input Primary DNS IP address
DNS2	Input secondary DNS IP address

7.5.4 DDNS



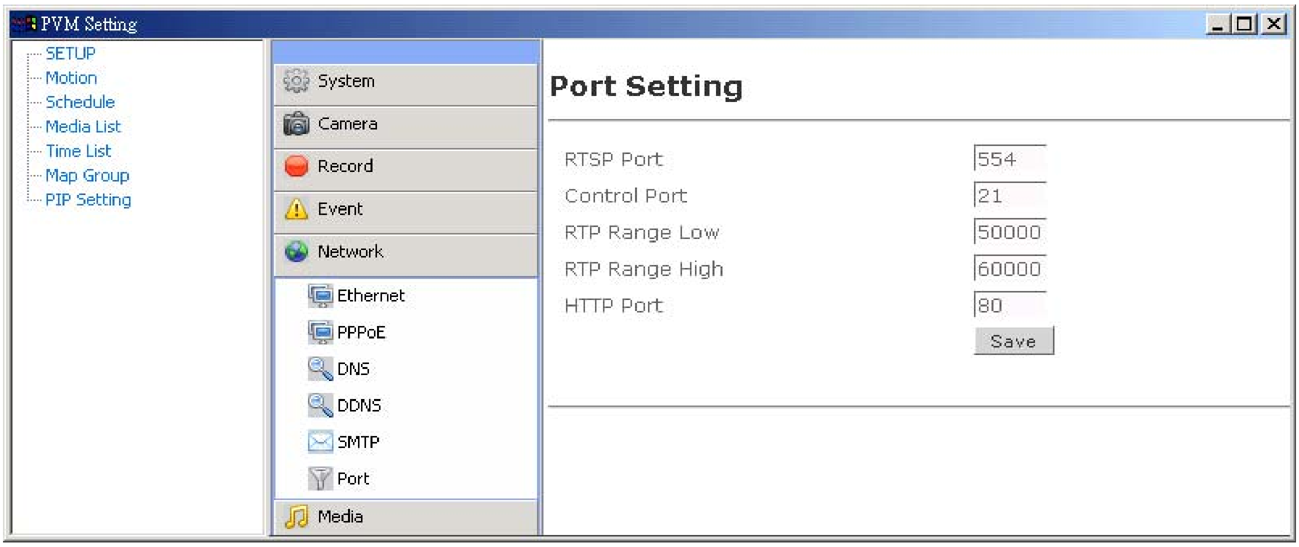
Active	DDNS Enable / Disable
Service	DynDNS.org / 3322.org
Host Name	DDNS host name
User Name	DDNS supplied login name
Password	DDNS supplied login password
Confirm Password	DDNS supplied login password confirm

7.5.5 SMTP



SMTP Server	Mail server IP address
Recipient	Receiver user's email address Ex: HS168@hotmail.com
Sender	Sender's E-mail address
User Name	User's email login name
Password	User's email login password
Confirm Password	Confirm user's email login password
Authentication Method	PLAIN / LOGIN

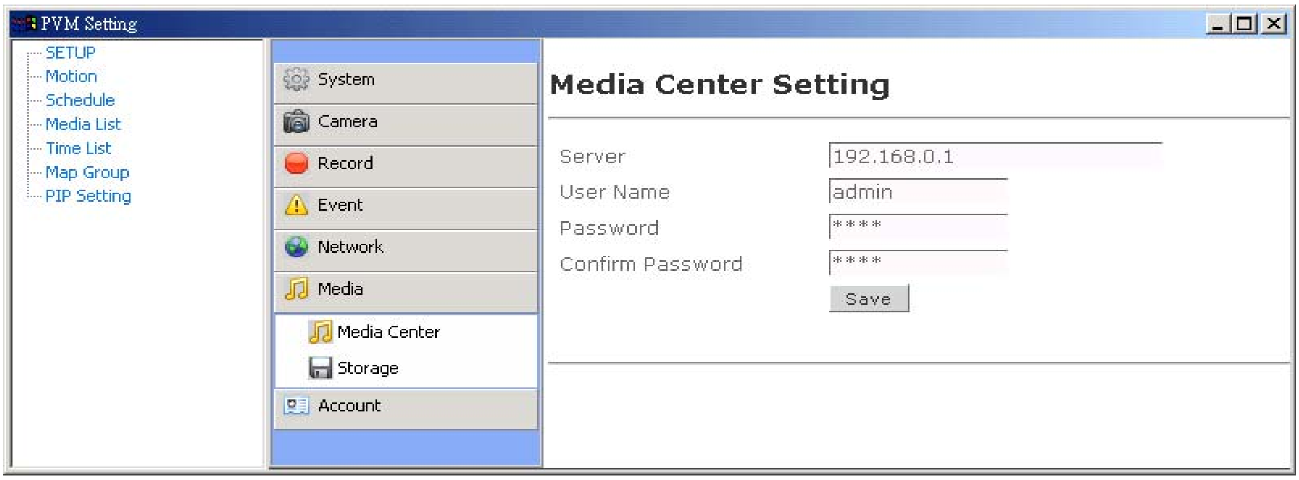
7.5.6 Port



RTSP Port	RTSP Port , default is 554
Control Port	Control Port , default is 21
RTP Range Low	RTP Range Low
RTP Range High	RTP Range High
HTTP Port	HTTP Port default is 80

7.6 Media

7.6.1 Media Center



Server	Input local PC IP address Local PC means it have installed client software PC.
User Name	User's login name
Password	User's login password
Confirm Password	Confirm user's login password

Notice :

If user want to do the media scheduling then the server IP address must be changed. User name & password doesn't need to change values.

7.6.2 Storage

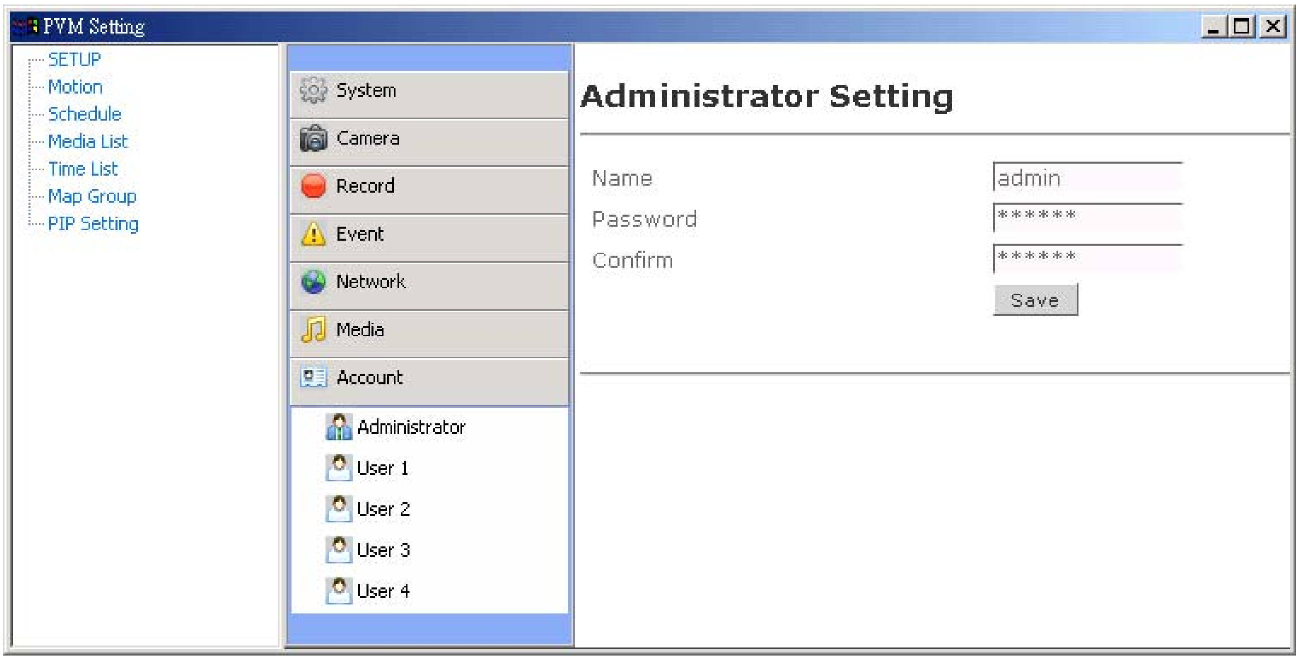


Media storage device support HDD, SD card , USB memory stick.

Notice :

Scheduling record will be saved in HDD,

7.7 Account



The PVM system provides 5 accounts for user login.

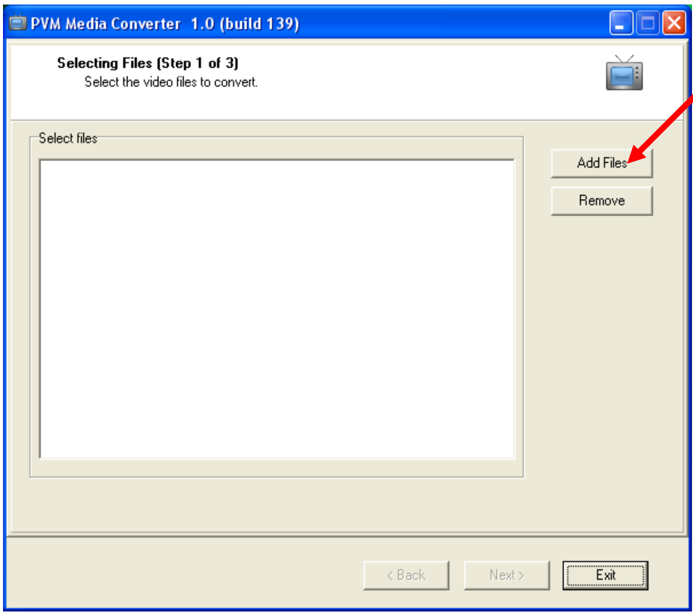
Default administrator login name is admin , password is 123456.

8. Media Convert

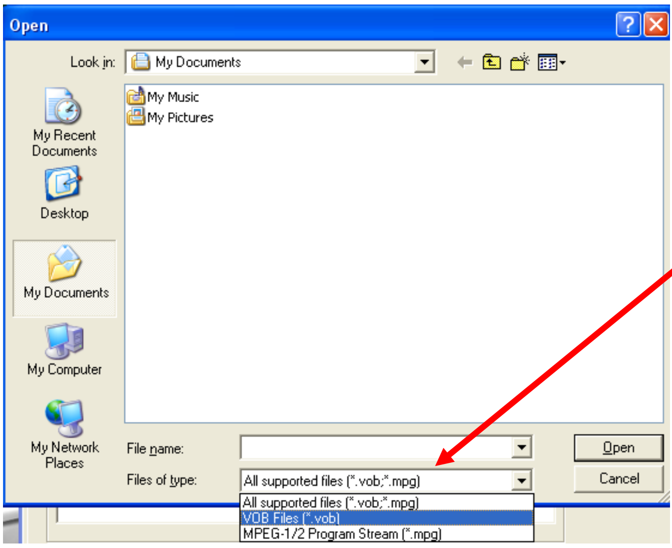
The PVM Context source can supports three type source input
(1) H.264 video format (2) mp3 audio format (3) jpeg image format.
Because the PVM media file format only support H.264 format,so user have to convert media format to H.264 format. Please follow below steps to convert media file format.

After user have installed the client software, please run the Video Conversion software.
From Program -> PVM Manager -> VideoConverson.

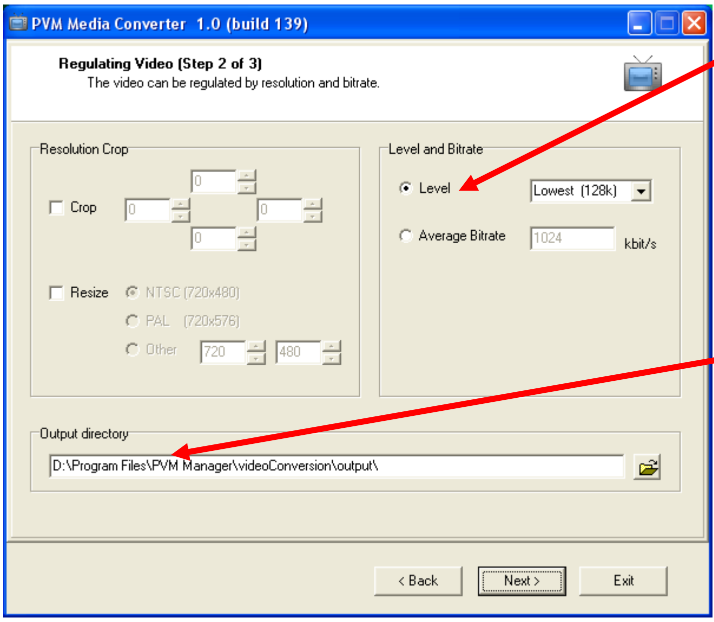




Press Add File button to choose the input media file

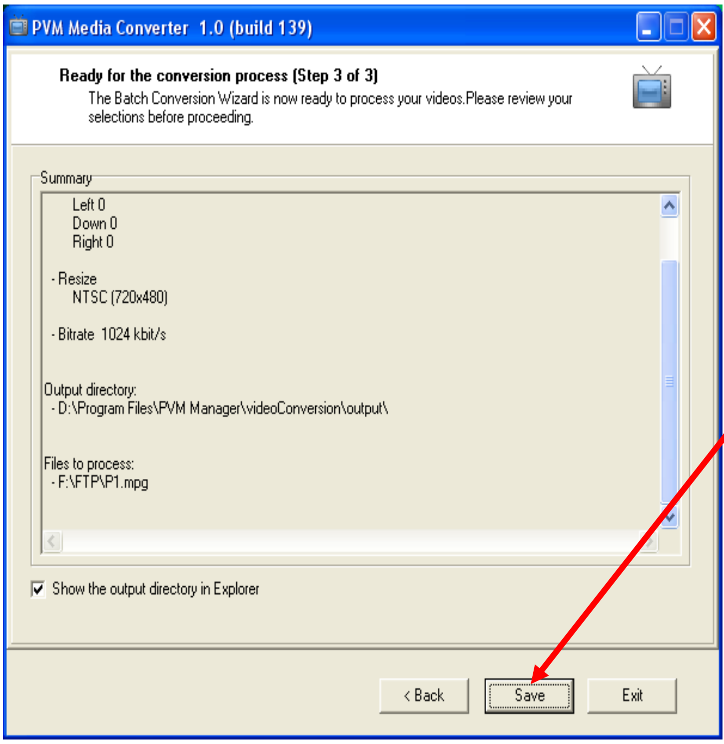


Input media file could be the Mpeg1/ Mpeg2 or VOB file format



Setup the video resolution and bitrate

Choose the video output path



Display the detail information

Press save button to start convert.

